
Columbia
University
Bulletin

The Faculty of Medicine
College of Physicians
& Surgeons
1992-1993



Inquiries

POST OFFICE ADDRESS

College of Physicians and Surgeons
Columbia University
630 West 168th Street
New York, NY 10032

TELEPHONE INQUIRIES:

Office of Admissions: (212) 305-3595
Office of Financial Aid: (212) 305-4100

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& Surgeons
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Academic Calendar, 1992–1993

The following Academic Calendar was correct and complete as of the time of publication; however, the University reserves the right to revise or amend it, in whole or in part, at any time. Information on the current status of the Academic Calendar may be obtained in the Office of Financial and Student Information Services, 141 Black, 212-305-3477.

Major Religious Holidays

For a statement of University policy regarding religious holidays, see *University Regulations*.

Some of the major holidays are listed below. The Jewish and Islamic holy days begin at sundown of the preceding day. The exact dates for the Islamic holy days may vary by one or two days from the estimated dates given below.

1992

Monday, Tuesday, September 28, 29	Rosh Hashanah
Wednesday, October 7	Yom Kippur
Monday, Tuesday, October 12–13	First days of Succoth
Monday, Tuesday, October 19–20	Concluding days of Succoth
Friday, December 25	Christmas

1993

Saturday, January 23	Lunar New Year
Thursday, March 25	Id al Fitr
Tuesday, Wednesday, April 6–7	First days of Passover
Friday, April 9	Good Friday
Sunday, April 11	Easter
Monday, Tuesday, April 12–13	Concluding days of Passover
Wednesday, Thursday, May 26–27	Shavuoth
Tuesday, June 1	Id al Adha

JUNE

9–10 USMLE I—Required for Class of 1994. Passing required for graduation from P&S.

JULY

- 1 Wednesday. Class of 1993 reports to hospital rotations.
- 3 Friday. Independence Day Holiday observed for fourth-year students.
- 6 Monday. Class of 1994 reports to hospital rotations.

AUGUST

- 17–21 Monday-Friday. Orientation for first-year students, Class of 1996.
- 20 Thursday. Registration for first-year students.
- 24 Monday. Academic year begins for first and second year.

SEPTEMBER

7 Monday. Labor Day. Holiday for students in 1st, 2nd, and 3rd years.

22–23 Tuesday and Wednesday. USMLE I examination required for students failing June 9–10 examination.

24–25 Thursday and Friday. USMLE II examination required for fourth-year students. Passing required for graduation from P&S.

OCTOBER

21 Wednesday. Awarding of October degrees.

NOVEMBER

3 Tuesday. Election Day. Half-day holiday for first- and second-year students.

26 Thursday. Thanksgiving holiday for third-year students.

26–27 Thursday and Friday. Thanksgiving holiday for first- and second-year students.

DECEMBER

19 Saturday through Sunday, January 3, vacation for second- and third-year students.

22 Tuesday through Sunday, January 3, vacation for first-year students.

JANUARY

4 Monday. Resumption of classes for first-, second-, and third-year students.

18 Monday. Martin Luther King's Birthday (observed). Holiday for first- and second-year students.

FEBRUARY

10 Wednesday. Awarding of February degrees.

15 Monday. Washington's Birthday (observed). Holiday for first- and second-year students.

MARCH

30–31 Tuesday and Wednesday. USMLE II for students failing September 22–23 examination.

APRIL

3–11 Saturday through Sunday. Spring vacation for first- and second-year students.

MAY

5 Wednesday. Dean's Day for Medical Student Research.

19 Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.

21 Friday. Last day of classes for second-year students.

31 Monday. Memorial Day holiday for first- and third-year students.

JUNE

8-9 Tuesday and Wednesday. USMLE I required for Class of 1995. Passing required for graduation from P&S.

11 Friday. Last day of classes for first-year students.

18 Friday. Major Clinical Year concludes for third-year students.

JULY

1 Thursday. Class of 1994 reports to hospital rotations.

4 Sunday. Independence Day holiday.

6 Tuesday. Hospital rotations begin for Class of 1995.

Holidays not specified on this calendar are decided by Course Directors in each course in first and second years and by Course Directors in each course in each teaching hospital in third and fourth years.

Dates of US Medical Licensing Examinations 1992-1993

Step I	June 9-10, 1992	Required by P&S
	September 22-23, 1992	Not given at P&S
	June 8-9, 1993	Required by P&S
	September 21-22, 1993	Not given at P&S
Step II	September 24-25, 1992	Required by P&S
	March 30-31, 1993	Not given at P&S

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- ROBERT H. WYLIE JR. *Professor Emeritus of Clinical Surgery*

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about 20 acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a 17-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a 20-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and

Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a 20-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Augustus C. Long Health Sciences Library

The Columbia University Health Services Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, and a leisure reading lounge.

With almost 450,000 volumes and a staff of 50, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 4,000 periodicals are received regularly. The library includes a comprehensive media center equipped with audiovisual materials and equipment, a microcomputer laboratory and classroom, and a significant rare book and special collections section. The library offers a wide array of information services, including computerized literature searching, individual consultation on research topics, and instruction on the use of information resources. Materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty also are permitted access to the collections of many other research institutions including Stanford and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Services Library.

Comprehensive Cancer Center and Institute of Cancer Research

The Cancer Center was established in 1972 and in 1979 was awarded Comprehensive status by the National Cancer Institute in recognition of its broad responsibility for research, patient care, cancer education, and cancer control activities. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's-Roosevelt, Harlem—as well as Overlook in Summit, New Jersey, and Morristown Memorial Hospital in New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, stimulate basic cancer research, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the diagnosis, treatment, and care of patients with cancer.

The Institute of Cancer Research of Columbia University College of Physicians and Surgeons was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Comprehensive Cancer Center and the Institute of Cancer Research are mutually involved in a clinical and basic research cancer effort, although their administrations function autonomously.

The Centers for Community Health

The Centers for Community Health are composed of a Center for Health Services Research and a Collaborative Program in Oral Health with the School of Dental and Oral Surgery whose research program is one of the few in the country directed toward an area of health services which has long been neglected. The Centers provide a locus for student teaching and research by the Faculty of Medicine and the School of Public Health, especially health administration, on problems of the delivery, financing, and distribution of health care in a diverse group of institutions in the inner city and the suburbs.

Center for Geriatrics and Gerontology

The Center was established in 1979 by the Faculty of Medicine and the New York State Office of Mental Health and is a resource for teaching, research, and clinical model development in geriatrics and gerontology in medical and long-term care facilities and in community settings. The components of the Center comprise an independent entity in the Faculty of Medicine, a division of the School of Public Health, a department in the New York State Psychiatric Institute, and the Morris W. Stroud III Program on Scientific Approaches to Quality of Life in Health and Aging. Its major focus is cross-national and cross-cultural research relating to the health of the elderly, with an emphasis on the interplay of medical, mental, and social conditions.

Howard Hughes Medical Institute Program in Molecular Neurobiology

The Program is the only one of the 10 Hughes Medical Institute Programs in the country to be devoted to the neurosciences. Its establishment in 1984 made possible the scientific integration of the College's widely acclaimed research efforts in the neurobiology of ion channels, learning, development, and critical areas of molecular genetics. In addition to six established investigators in these fields, the Center personnel include postdoctoral fellows, staff scientists, and support staff.

Howard Hughes Medical Institute Program in Structural Biology

Begun in 1986, the program is part of a larger effort by the Institute, which houses several of its research laboratories in various medical centers. The program at Columbia focuses on biophysical studies of molecular structure with three major areas of activity: direct research activities in diffraction studies of macromolecular structure and function, core facilities for molecular biophysics, and a synchrotron radiation resource at Brookhaven National Laboratory.

Center for the Study of Society and Medicine

The Center for the Study of Society and Medicine, established in 1983, pursues an interdisciplinary research and teaching program that explores medicine in its social, cultural, and political contexts. Its faculty is drawn from history, sociology, law, English and comparative literature, and medicine and brings a humanistic and social science perspective to bear on medical education, clinical practice, biomedical research, and health care delivery. The principal faculty members are appointed through the Department of Medicine and teach a required course for second-year medical students on the social forces shaping contemporary medical practice. They also conduct seminars for house staff, participate in hospital rounds, and lecture at Columbia-affiliated institutions. The Center's programs are focused on medicine's intersection with the humanities, society, human rights, public policy, and ethics as well as on the social context of biomedical research.

Irving Center for Clinical Research

The Herbert and Florence Irving Center for Clinical Research is a resource for the purpose of stimulating multidisciplinary, intensive investigation of human disease. It includes a 14-bed inpatient Adult Unit, a four-bed inpatient Pediatric Unit, a Metabolic Nutrition Kitchen, an Outpatient Unit, a Core Laboratory, and a Computer Facility. The Center is designed so that acutely ill, as well as ambulatory patients, can be studied. Use of the Center is open to qualified faculty members of the clinical and basic science departments of the College of Physicians and Surgeons upon approval of the Advisory Committee. Although the primary purpose of the

facility is concerned with research, it also provides unusual opportunities for undergraduate and postgraduate training in clinical investigation.

In the Adult Unit major research activities include bone and mineral metabolism, cardiac electrophysiology and pharmacology, cardiovascular pathophysiology, cardiac transplantation, endocrinology/endocrine transplantation, epidemiology, extracorporeal and photochemotherapy, hypertension, immunology/rheumatology, lipid and lipoprotein metabolism, movement disorders, neuromuscular diseases, pharmacokinetics and antibiotics, porphyria, psychiatry, reproductive biology, secretory diarrheas, and thrombosis.

In the Pediatric Unit major research activities include hemolytic anemias, infant nutrition, lead poisoning, perinatology, and total parenteral nutrition.

Gertrude H. Sergievsky Center

The Sergievsky Center faculty focuses on epidemiologic approaches to the study of neurodevelopmental disorders throughout the lifespan. Areas of major concentration include epilepsy and seizure disorders, degenerative diseases of the nervous system, cerebral palsy and related developmental disorders of nervous system in infants and children, and neurologic disorders of major public health impact. The allied disciplines in the health sciences represented in the Center, in addition to epidemiology, include biostatistics, human genetics, neurology of adults and children, obstetrics, pediatrics, physiology, psychiatry of adults and children, psychology, and social sciences. Funded with an endowment, it also participates in the teaching programs of the epidemiology division of the School of Public Health and the Departments of Neurology, Psychiatry, and Pediatrics and provides a major resource in epidemiology research and training in the epidemiology of diseases of the nervous system.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute serves to conduct, coordinate, and lead nutrition research and education activities throughout Columbia University and its affiliated institutions. A long-standing mission of the Institute is to train individuals for scholarly activities and for positions in universities and research centers that are in the forefront of the movement to advance nutrition as a health science. In addition, the Institute seeks to augment the training of physicians and other health specialists who are interested in emphasizing nutrition in their professions.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, the Institute functions to coordinate academic nutrition activities being carried out within many units (Faculties, Departments, Centers) within the Columbia University system. Although each unit conducts its own program of research and training, combined research projects among the units are under way and joint seminars and courses involving faculty members and students in all units are conducted regularly.

While the Institute does not award degrees, there are opportunities for graduate students to work at the Institute toward the M.S. and Ph.D. degrees (see Nutrition in this bulletin). Degrees in nutrition are awarded by the Graduate School of Arts and Sciences of Columbia University. Application to the Ph.D. program should be made to the program at 701 W. 168th Street, Room 406, New York, NY 10032. For further information contact the Institute of Human Nutrition, 701 W. 168th Street, New York, NY 10032.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population problem. In more recent years, the aims of the Institute have been inter-

preted more broadly to include teaching, research, and the provision of clinical and social services related to the reproductive health of men and women. The Institute now consists of three centers.

The Center for Reproductive Sciences (CRS) is a multidisciplinary group of basic and clinical research scientists with a specific interest in the overlapping field of genetics and early development. The overall research emphasis is on obtaining comprehensive information on the reproductive mechanisms which ultimately result in the production of mammalian germ cells. The Center includes Divisions of Genetics of Reproduction, Male Reproductive Endocrinology, Female Reproductive Endocrinology, Primate Neuroendocrinology, Molecular Endocrinology, Gene Expression in Early Development, and Biochemistry of Reproduction, which are closely integrated. Individual and collaborative ongoing research is concerned with 1) a study of TGF-beta; 2) an analysis of mammalian spermatogenesis; 3) a study of *hsp26* expression in *Drosophila*; 4) use of the homeotic selector genes (*Ubx*) in *Drosophila* to analyze development; 5) the study of the GnRH pulse generator in primates; 6) a study of the prenatal expression of growth factor genes and receptors; 7) a study of GnRH networks in the rhesus brain by neuroanatomical methods; 8) analysis of placental CRH in pregnant baboons; 9) experiments with steroid/growth factors in neurodevelopment; 10) study of sex steroid regulation of brain POMC and LH; 11) an analysis of proto-oncogene expression during mammalian gametogenesis; 12) genetic recombination in the cold hibernating hamsters; 13) origins of human congenital malformations; and 14) a study of Wnt proteins. Biomedical cores are organized to expedite technical usage of a primate colony, molecular cytology/histology techniques, radioimmunoassay of steroids and proteins, cell and hybridization culture (including transgenic techniques), a molecular biology facility, Electron Microscopy, and a Protein DNA Microchemistry Core. Graduate students, postdoctoral fellows, and medical students receive training in individual laboratories. A weekly seminar series and courses sponsored by associated basic sciences departments provide didactic instruction.

The aims of the Center for Population and Family Health are more specifically relevant to the social consequences of human reproduction. The Center's community-oriented Reproductive Health Services for Women Unit, in cooperation with the division of ambulatory care of the Department of Obstetrics and Gynecology, provides care, with emphasis on services for adolescents, to the community surrounding the Columbia-Presbyterian Medical Center. The Center's International Research and Technical Assistance Unit works with a number of foreign governments and with private organizations toward improved basic health and family planning services for poor people in developing countries. The Social Sciences Research Unit conducts ongoing evaluations of the Center's domestic reproductive service programs and carries out a basic research program on the causes and consequences of adolescent fertility. Finally, as a division of the School of Public Health, the Center provides academic programs leading to the M.P.H. and Dr.P.H. degrees in the fields of population/family planning, maternal and child health, and public health nutrition.

The offices of the Centers for Reproductive Sciences and for Male Reproduction are at 630 West 168th Street, and the office for the Center for Population and Family Health is at 60 Haven Avenue, Floor B-3, New York, N.Y. 10032.

Affiliated Hospitals

The Presbyterian Hospital in the City of New York

Founded in 1868, the Hospital joined with the Columbia College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the permanent alliance agreement with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,603 beds and 79 bassinets. A major modernization program completed in 1989 encompassed the expansion of pediatric surgery and imaging in the Babies Hospital Division, the completion of a new 300-bed community hospital—the Allen Pavilion—at the northern tip of Manhattan, and the opening of the 10-story, 745-bed Milstein Hospital Building.

The Hospital includes all of the individual units described below:

The Milstein Hospital Building is the single largest hospital pavilion, with 745 beds. This technologically advanced, adult primary care hospital was opened in 1989.

The New York Orthopaedic Hospital, the Hospital's orthopedic surgery service, opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The first artificial joints for hips, shoulders, and knees were developed there.

Squier Urological Clinic is the urology service of The Presbyterian Hospital.

Sloane Hospital for Women, the Hospital's obstetrics and gynecology service, is best known for care of women at risk for difficult pregnancies and for treatment of ovarian and breast cancer. It also has an active in vitro fertilization program.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens and care for premature babies. Its neonatal intensive care unit has been designated a center of excellence by the National Institutes of Health for treatment of respiratory disorders in premature babies. It also excels in treating infants and children with heart defects.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It is known for research in and treatment of Parkinson's disease, movement disorders, aneurysms, epilepsy, brain tumors, and strokes.

The Edward S. Harkness Eye Institute, site of the Hospital's ophthalmology service, was founded in 1933. The Eye Institute is a leading center for research in and treatment of all eye disorders, including cataracts, tumors of the eye, and glaucoma, and has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. The Eye Institute has been a pioneer in the clinical use of lasers and ultrasound.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and became part of Presbyterian Hospital in 1928. It comprises all of the Hospital's outpatient clinics and provides excellent medical and surgical care in every discipline.

Atchley Pavilion contains administrative and doctors' offices, as well as specialized ambulatory care centers.

The Allen Pavilion is a 300-bed community hospital located at 220th Street and Broadway. It was opened in 1988 and offers a wide range of medical and surgical services to residents of northern Manhattan, Riverdale, and other Bronx communities.

Washington Heights/Inwood Ambulatory Care Network (ACNC) is a multi-site network of doctors' offices established in the surrounding community by The Presbyterian Hospital.

Columbia-Presbyterian/Eastside is the Hospital's midtown Manhattan practice site.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 180 beds and a staff of salaried, full-time specialists. In 1991, there were 9,699 hospital admissions, including 994 to the O'Connor Hospital Division, a 28-bed Bassett facility located in Delhi, New York. In 1991, there were more than 174,000 outpatient visits to Cooperstown clinics and 141,030 visits to Bassett's 14 regional health center sites. In 1992, the Bassett Clinic, a \$30 million outpatient facility, including a comprehensive cancer treatment center, opened in Cooperstown. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct basic,

clinical, and epidemiological research. The library is unusually extensive for a hospital of this size, with more than 30,000 volumes and 600 subscribed journals. Since 1947, the hospital has had a formal affiliation with Columbia and in 1991, 35 students from Columbia elected programs at Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a progressive acute general teaching hospital offering primary, secondary, and tertiary care for children and adults living in the Central Harlem area and environs. The main complex consists of seven buildings. Eleven strategically located satellites extend the hospital out into the community. Operating with 678 certified beds and managing over 722,000 annual clinic visits, the hospital functions as the primary health care provider for a catchment area of three and a half square miles. Since 1968, the College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, has been responsible for all professional medical services in this hospital and nominates its professional staff. This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

Helen Hayes Hospital in West Haverstraw, New York, is a 155-bed specialty/rehabilitation hospital offering comprehensive medical, surgical, and therapeutic services to people with physical disabilities or chronic disabling diseases. Founded in 1900, the hospital is operated by the New York State Department of Health and has been formally associated with Columbia University since 1967. In 1988, the association was strengthened with an affiliation agreement between the hospital and CPMC, with CPMC physicians and dentists now providing the hospital's medical and surgical services. The medical specialties and allied health professions are organized into disability units that deliver comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The goal of the team is to help patients reach their maximum level of independence. Areas of particular excellence in the hospital's specialty services include neurologic disorders (including MS and epilepsy), orthopedic surgery, and cardiopulmonary rehabilitation. The hospital has more than 1,400 admissions and 13,000 outpatient visits a year. The hospital also supports four on-site research centers: Center for Rehabilitation Technology, Neurology Research Center, Orthopedic Engineering and Research Center, and Regional Bone Center. The Regional Bone Center currently holds a SCOR grant in osteoporosis.

Morristown Memorial Hospital

Morristown Memorial Hospital in Morristown, N.J., is a regional hospital center offering comprehensive health services for the entire family. It is a voluntary, nonprofit institution with a history of community service dating back to 1892. The hospital has become a central health care facility serving Morris, Warren, Sussex, and Somerset counties, and a medical referral center for all of northwest New Jersey. Morristown Memorial is also a teaching hospital, with programs for medical, nursing, and technical staff. It became affiliated with the College of Physicians and Surgeons in 1979. With 657 beds, 3,300 employees (including 900 nurses), a medical and dental staff of more than 650, and a full spectrum of basic and highly specialized services, Morristown Memorial combines the traditional advantages of a community hospital with the advanced capabilities of a progressive medical center. The hospital has two divisions: one where the emphasis is on acute care; the other, a center for rehabilitation medicine, geriatric extended care and chemical dependency services.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 589-bed non-profit suburban community hospital. Founded in 1906, it became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. Overlook trains approximately 100 residents a year. It is a primary and specialized acute care institution accommodating 24,000 inpatient and 293,000 outpatient visits each year. Overlook offers particularly strong training in pediatrics, family practice, radiology, internal medicine, and dentistry. There is also a visiting rotation from Columbia in surgery and a mixed resident rotation from other academic programs in obstetrics and gynecology. With the opening of the hospital's new Medical Arts Center, there will be on-site primary care clinics and subspecialty clinics in each of the major primary care specialties. The hospital also staffs and administers the urban Vauxhall Family Health Center. The hospital's Center for Community Health provides outpatient services including preadmission testing, ambulatory surgery, and radiology and a consumer health library. In 1986, Overlook Hospital and nearby Morristown Memorial Hospital consolidated to form Atlantic Health Systems, which operates the only joint cardiac surgery program in the state. Overlook maintains an open staff policy in regards to the medical staff, which at the present time numbers 700.

St. Francis Hospital

Located in Roslyn, New York, on Long Island, St. Francis Hospital is the state's premier heart center, performing more open heart surgery and cardiac catheterizations for infants, children, and adults than any other facility statewide. St. Francis Hospital is a non-profit, voluntary 247-bed cardiac specialty center founded in 1920 by the Sisters of the Franciscan Missionaries of Mary. Throughout the years it has progressed to incorporate and pioneer many of cardiology's innovations and is among the nation's top six institutions in rendering acute care. By 1948, the hospital had developed into the largest children's hospital in the United States devoted exclusively to the treatment of children with cardiac conditions. During the early 1950s, it received international recognition for pioneering work in open heart surgery and in 1956 opened its doors to adult patients for cardiovascular care. During the 1960s and 1970s, the hospital added a full range of general medical, surgical, and emergency services that support the cardiac program. In the 1970s, St. Francis became the state's only specially designated Heart Center. The 40-bed Thomas F. Casey Acute Care Pavilion, featuring state-of-the-art coronary and intensive care facilities and technology, opened in 1990 and is the hub of patient and visitor services. In 1991, St. Francis performed 1,779 open heart procedures and 5,881 cardiac catheterizations. St. Francis is the newest affiliate of P&S. The affiliation agreement was signed in September 1992. In September 1992 St. Francis opened the new DeMatteis Center for Cardiac Research and Education, a 52-acre campus devoted to cardiac risk reduction, screening, fitness, and prevention.

St. Luke's—Roosevelt Hospital Center

St. Luke's-Roosevelt Hospital Center is a 1,315-bed, full-service private hospital serving Manhattan's West Side from West 34th Street to West 142nd Street. The Hospital Center was formed in 1979 with the merger of St. Luke's Hospital Center and The Roosevelt Hospital. It operates as a single hospital with major building complexes and emergency departments at two locations. Both St. Luke's and Roosevelt have been full university hospitals affiliated with the College of Physicians and Surgeons for more than 20 years.

The St. Luke's-Roosevelt Hospital Center medical staff numbers approximately 1,200, and the house staff consists of nearly 500 residents and fellows. Inpatient days during 1991 totaled 400,947, with 39,426 discharges and an occupancy rate of 90.6 percent; 5,011 babies were delivered. The Hospital Center has 120 clinics and other outpatient programs totaling nearly 387,000 visits annually. Emergency rooms at the two hospitals had 108,607 visits in 1991.

The Hospital Center is recognized as a leader in such fields as cardiology and cardiac surgery, hand surgery, kidney transplantation, pulmonary disease, and performing arts and sports medicine. The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, peptide therapy for multiple sclerosis, autoimmune dis-

ease, aneurysm disease, AIDS, and obesity and nutrition. (It is the site of a federally funded obesity research center.) Research is conducted, in part, through its affiliated Institute for Health Sciences.

St. Luke's Division

The St. Luke's Division, at 1111 Amsterdam Avenue, was established in 1850 and has been located next to the main Columbia campus since 1896. In 1953 St. Luke's merged with Woman's Hospital, which relocated to the St. Luke's campus in 1965. In 1992, the St. Luke's Division opened a new, state-of-the-art 10-story hospital building with 160 medical-surgical beds, an 11-room operating suite, and technologically advanced critical care and cardiac care units. By 1995, renovations to most of the division's older buildings will create interiors equivalent to those in the new building. The St. Luke's Emergency Department, a designated trauma center, is one of the busiest emergency services in New York City.

Roosevelt Division

The Roosevelt Division opened in 1871 at its present site at 428 W. 59th Street. Hospital expansion over the years included the addition of the Arthur J. Antenucci Building in 1973 to accommodate clinical faculty research. In late 1992 a new 13-story, 300-bed acute care hospital building opened with a new lobby entrance on Tenth Avenue. New facilities include a 13-room operating suite, expanded radiology and radiation therapy departments, larger obstetric/gynecology and neonatal intensive care units, consolidated cardiology services, and a new 200-seat conference facility. Following a complete renovation of the adjacent Winston Building, several of the hospital's older buildings will be closed.

New York State Psychiatric Institute

The institute is the oldest psychiatric research institute in the United States. It was built and is maintained by the New York State Office of Mental Health. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to do research into the causes and treatment of psychiatric illness, to provide education for mental health professionals, and to provide the highest quality of clinical care for patients with psychiatric disorders. The Institute currently maintains 25 major research departments, a research hospital, and a wide variety of specialized outpatient departments that provide diagnostic and treatment programs.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in August of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other course in chemistry covering at least one academic year. Students applying for admission must also have taken the Medical College Admission Test within four years of the date of their application. The latest time the MCAT can be taken is the autumn of the year preceding anticipated enrollment. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class. Application forms are available beginning in June of the year preceding admission, and they must be filed by October 15. The completed form must be accompanied by the application fee of \$60. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have

already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Application for advanced standing is possible for students wishing to transfer into the second- or third-year classes. Transfer into the fourth year is not possible. Students from foreign schools wishing to transfer must apply to the second-, not the third-year class. The only applicants who can be considered for transfer into either the second- or the third-year classes are those who are currently enrolled in an accredited medical school, or else have been so enrolled within one year preceding the time they make application. The number of places available for transfer into both the second- and third-year classes is extremely limited, usually between two and four places for each class; in some years there have been no places available. The deadline for receipt of applications for both classes is April 15.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their pre-medical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission with advanced standing to this school from individuals who have begun their medical education in schools outside the United States and Canada, but it has been able to admit very few individuals, either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register with the Student Financial and Information Services office during the registration period listed in the Academic Calendar. Incoming students are notified of the date, time, and place through information provided in the admissions packet. Thereafter, this information is sent to students by the Student Financial and Information office. This office, located in room 141 of the Black Building, provides registrar and bursar services. Daily hours are 9:00 a.m. to 4:30 p.m. Mondays, Wednesdays, Thursdays, Fridays; 9:00 a.m. to 6 p.m. Tuesdays.

All students are asked to give Social Security numbers when registering in the University. Students who do not have Social Security numbers should obtain them from their local Social Security office well in advance of registration. Foreign students should consult the International Student Office, 525 Riverside Drive, Suite 200 (mailing address: International Student Office, Columbia University, Box 525 Central Mail Room, New York, NY 10027); for further information.

Students who are not citizens of the United States and who need authorization for special billing of tuition and/or fees to foreign institutions, agencies, or sponsors should go to the Foreign Student Adviser with two copies of the sponsorship letter. Special billing authorization is required of students whose bills are to be sent to a third party for payment.

Other Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may register for one or two courses (except during the summer term) in any division of the University without charge by filing a formal change of program application approved by the Associate Dean for Student Affairs. These forms are then filed in the Office of Student Information Services (Black Building, Room 141). Consult the Office of Student Information Services for autumn and spring change-of-program dates.

Fees

The following fees, prescribed by statute, are in effect for 1992-1993 and are subject to change at the discretion of the Trustees.

University charges such as tuition and fees and residence halls and board plans are due and payable in full by the date announced before the beginning of each term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a **FINANCE CHARGE** is assessed on amounts not paid by the due date on the initial bill received prior to registration and thereafter as indicated on subsequent monthly bills. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration, which sets forth the terms and conditions of payment. All charges must be paid by the end of the term.

It is the policy of the University to withhold diplomas, certificates, and transcripts until all financial obligations have been met. Candidates for graduation are urged to pay their bills in full at least one month prior to graduation.

In the event a diploma, certificate, or transcript is withheld because of an unpaid bill, a student will be **required** to use a certified check, money order, or cash to release any of the aforementioned documents.

Tuition and Fees

Tuition for the full course in medicine for one academic year (or the equivalent), payable in two installments	\$20,290
Disability insurance	\$50
Microscope rental	\$200

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1—August 31)

Health service	\$610
Hospital insurance premium	594

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents, and the latter are eligible to receive the benefits of the health service program. Students should consult the Student Health Service for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

For admission	\$60
For late application, or late renewal of application, for a degree	60

Late Registration Fees

	<i>Full-Time</i>
During late registration	\$ 50
After late registration	100

Withdrawal and Adjustment of Fees

With the passage of the Higher Education Amendments of 1992 (Public Law 102-325), the University is required to implement a pro rata refund policy for students who do not register or who withdraw or otherwise fail to complete an enrollment period. Refunds are a percentage of charges (including tuition, dining, and housing) assessed the student based on the date of the student's last day of attendance (separation) as reported by the dean of the student's school.

All students will be charged a withdrawal fee of \$75.

A refund calculation will be based on the last day of attendance; however, a student may be charged for services (e.g. housing, dining) utilized after the last day of attendance. These charges should not be paid with Title IV funds.

Certain fees are not refundable: Fees for services used prior to withdrawal, for materials and equipment purchased, for services that continue to be available after withdrawal, and fees paid to outside entities generally will not be refunded. Fees not subject to refund: health service, medical insurance/Blue Cross, catastrophic insurance, course-related fees (labs, etc.), dental kit, microscope, case books, disability insurance, malpractice insurance, materials fee, orientation fee, international services charge, late registration fee, late payment fee, finance charges, computer fee, withdrawal fee.

Students will not be entitled to any portion of a refund until all Title IV programs are credited and all outstanding charges have been paid.

Refunds will be credited in the following order: Federal Stafford Loans, Federal Supplemental Loan to Students (SLS), Federal PLUS Loans (when disbursed through the University), Federal Perkins Loan, Federal Pell Grant Program, Federal Supplemental Educational Opportunity Grant Program, Other Title IV programs, non-Title IV funds, and, finally, any remaining credit balance to the student.

The refund percentage is as follows (prorated for calendars of different durations):

1st week	100% refund
2nd week	90%
3rd week	80%
4th week	80%
5th week	70%
6th week	60%
7th week	60%
8th week	50%
9th week	40%
After 9th week	—

Application or Renewal of Application for Degree

Degrees are awarded three times a year—in October, February, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Office of Student Information Services, 630 West 168th Street. The last day to file for an October degree is August 1; for a February degree, December 1; and for a May degree, March 1. (When the application date occurs on a Saturday or Sunday, the deadline becomes the next business day.) Fourth-year students usually apply during their last registration.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application for the following conferred date.

Requests for Transcripts

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of Student Information Services, Columbia University, 141 Black Building, 630 West 168th Street, New York, N.Y. 10032.

There is a charge of \$5 for each transcript requested singly, or \$5 for the first copy and \$1 for each additional copy requested at the same time. There is no charge for intrauniversity copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	\$20,290
Health and Hospitalization	1,204
Disability insurance	50
Microscope rental	200
Uniforms	90
Equipment	430
Books and supplies	760

In addition to the educational costs listed above, each first-year student should budget approximately \$9,542 to cover housing (\$4,494), food (\$3,357), clothing, laundry and dry cleaning (\$529), and miscellaneous expenses (\$1,162).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nose-piece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

There are three types of housing available to incoming P&S students: (a) *University Residence Halls*—traditional “dormitory rooms” for single students, (b) *University Real Estate Management Properties*—apartment accommodations owned and operated by the University for married students, and (c) *Off-Campus Housing*—rooms and apartments owned and operated by landlords other than the University and not subject to inspection or approval by the University.

University Residence Halls

All newly accepted single medical students who apply for housing are guaranteed an accommodation in UNIVERSITY RESIDENCE HALLS—Bard Hall. Bard Hall, located at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is an 11-story facility which includes both a residence hall and student commons. The residence hall facility houses 305 students in single rooms. Each room is approximately 10' x 13'. Many of the rooms are equipped with a sink. There is community shower and bathroom on each floor. The student commons includes a lounge, dining room, laundry, and athletic area. The newly renovated Bard Athletic Club encompasses a 20-yard swimming pool, three squash courts, an exercise room, Nautilus and Universal equipment, stationary bicycles, rowing machines, lockers, showers, and saunas. The facility is handicapped accessible. Membership for students is free; users must have their I.D. cards validated with an athletic club sticker, obtainable from the Bard Operations desk or the Health Sciences Housing Office.

University Real Estate Management Apartments

All newly accepted married medical students who apply for housing are guaranteed a University Real Estate Management Apartment in Bard-Haven Towers. The Bard-Haven Towers complex includes three 31-story, high-rise apartment towers. Each tower provides one, two, and three bedroom apartment accommodations. One bedroom apartments (line A&F) in Tower I have been reserved for married students. All apartments are unfurnished and include a full kitchen and bath. Gas, electricity, and telephone service are not included. Each building has laundry facilities, elevator service, and doorman service.

Off-Campus Housing

Students who seek Off-Campus Housing may utilize the Off-Campus Housing Inventory maintained in Room 253, Black Building.

Towers Waitlist

Single students who have received University Residence Halls housing in Bard Hall for their first year of medical school may apply for a University Real Estate Management Apartment in Bard-Haven Towers for their second or third year. There is a wait list for this type of housing. Applications for the Towers' Wait List are distributed by the Health Sciences Housing Office in late September.

All housing inquiries should be directed to: The Health Sciences Housing Office, Bard Hall, 50 Haven Avenue, New York, N.Y. 10032.

Disability-Related Services

Students with permanent or temporary disabilities who wish to request special arrangements are urged to notify the School's liaison officer for disability-related services as early as possible: Dr. Linda Lewis, P&S 3-401; (212) 305-3806. Services to students with permanent and temporary disabilities are coordinated through the Office of Student Affairs. Students are encouraged to call or stop by the Office to discuss any academic accommodations they may need or other related concerns they may have. The Office is located in 305 Low Library. Phone: 854-2388, TDD: 854-6794.

Financial Aid

All financial aid awards are based on demonstrated need. Each applicant for financial aid is required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

P&S participates in three scholarship programs that are usually awarded to students after the academic year has begun. Based on congressional appropriation, the Department of Health and Human Services (HHS) makes awards to participating medical schools for the EFN, FADHPS, and SDS programs.

The Scholarship for Students of Exceptional Financial Need (EFN) is targeted for students of exceptional need, i.e., those who have zero or close to zero in financial resources and are preferably from a group that has traditionally been underrepresented in medicine. Since the program's inception, P&S has received from one to four awards annually. These funds will replace part of the unit loan, thus providing a one-time full scholarship for one or more students. In 1991-92 the EFN award helped three students.

The other two HHS funds are the Financial Assistance for Disadvantaged Health Professions Students (FADHPS) scholarship and the Scholarship for Disadvantaged Students (SDS). To be considered, a student must come from an environment that inhibits individuals from obtaining the knowledge, skills, and abilities required to enroll in and graduate from a medical school, or the student must come from a family with an annual income below low-income thresholds, which are set according to family size by the U.S. Bureau of the Census. In addition, a student's resources (family contribution) must be \$5,000 or less. The amount of FADHPS and SDS awarded to each eligible student will be determined by the Financial Aid Officer and will be contingent upon the number of eligible students, their degrees of financial need, and the amount of funds awarded to P&S. The funds will also be used to reduce part of the unit loan. In 1991-92 the average award was \$1,536.

P&S also has approximately five full-tuition scholarships. The recipients are selected primarily on the basis of need from the second-, third- and fourth-year classes during the Fall semester. Some of these scholarships were established by the Rhodebeck and Wolf families. A student may have this scholarship renewed if his or her need remains the same in subsequent years.

All students will automatically be considered for these special scholarships by completing a GAPSFAS form and by providing all required financial information.

Upon acceptance by the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Health Sciences Office of Student Financial Planning, telephone (212) 305-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State offers the New York Regents Health Care Opportunity Scholarships for Medicine and Dentistry. Awards will go up to \$10,000 per year. Applicants must be legal residents of New York State for one year prior to applying and be enrolled in a medical school or be candidates for admission to a medical school. Applicants must agree to practice medicine in an area of New York State designated as a shortage area. Awards will be made to eligible candidates in the following order of priority: (1) Candidate is economically disadvantaged and a minority group member historically under-represented in the profession, (2) Candidate is a minority group member under-represented in the profession, and (3) Candidate completed undergraduate work through assistance from the HEOP, EOP, SEEK, or College Discovery opportunity programs. Applications and instructions may be obtained from:

Professional Career Opportunity Scholarship Programs
Bureau of Higher and Professional Educational Testing
Cultural Education Center, Room 5C64
State Education Department
Albany, New York 11230
(518) 474-6394

Applicants to medical school should also consult college premedical offices for information on the competitive New York State Regents Health Care Scholarships for Professional Study of Medicine. Applications are usually due between the January and March prior to matriculation. Students should be advised that these deadlines are strictly adhered to.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States. Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 254 West 31st Street, New York, N.Y. 10001 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. The Office of Student Financial Planning of the College of Physicians and Surgeons advises students of the availability of this scholarship annually.

There are a number of scholarship funds administered by the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University and are awarded to qualified students by the Financial Aid Office. Students are assured consideration for these funds by applying regularly for financial aid.

Foreign Students Who Do Not Hold a Permanent Resident Visa

A major portion of a financial-aid package is the "Unit Loan." Most of our loan money comes from federally or state-sponsored programs that require a borrower be either a U.S. citizen or a permanent resident. A student in the U.S. with an F1 or F2 student visa or with a J1 or J2 exchange visitor visa cannot receive student aid from federally or state-sponsored sources but may qualify for and receive need-based school loans, "alternative loans" from outside sources, and grants from funds that are not federally or state-sponsored.

Despite eligibility for school funds, close to half of the cost of four years of medical school must be borne by the student in these categories and by his or her family or by external sources such as government, foundation, or private support. Therefore, to assure the College of the student's ability to pay, no later than two weeks prior to the first day of class each year, the student must present to the Office of Student Financial Planning proof that the full cost for that

year (as determined by the Financial Aid Officer) has been deposited into an account in the student's name at a bank in New York City. Adjustments to this amount will be made only if, after having completed the financial aid application packet in a timely manner, an "alternative loan," a CU loan, and/or a P&S grant is awarded. In that case, the amount of the deposit for the year may be reduced by the amount of aid awarded.

Tax Withholding for Nonresident Alien Scholarship and Fellowship Recipients

United States tax law requires the University to withhold tax at the rate of 14 percent on scholarship and fellowship grants paid to nonresident aliens that exceed the cost of tuition, books, fees, and related classroom expenses.

Certain countries have entered into tax treaties with the United States that may serve to reduce this rate of withholding. However, even when such a treaty applies, the student and the University must report the full amount of such excess to the Internal Revenue Service. If a student claims tax treaty benefits, he or she must also report this amount to his or her country of residence.

The International Student Office (525 Riverside Drive, Suite 200; mailing address: International Student Office, Columbia University, Box 525 Central Mail Room, New York, NY 10027; telephone 212-854-3591) has prepared a packet of tax information that is available to students and is revised annually. The tax law is complex and may vary with regard to individual circumstances. Therefore, as the University is not in a position to offer individual tax advice, each student may also wish to consult the consulate of his or her country of residence or a qualified tax professional.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA BERNHEIM '31 AND ABRAHAM PENNER '31 SCHOLARSHIP FUND
For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

E.M. BLUESTONE '19 SCHOLARSHIP FUND

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr., Fund.

ALICE BOHMFALK CHARITABLE TRUST FUND FOR SCHOLARSHIPS Established by John Bohmfalk in memory of Charles Bohmfalk, P&S 1883.

JOHN FREDERICK BOHMFALK SCHOLARSHIP Merit scholarships established as a bequest by the late John Federick Bohmfalk.

ELIZABETH ROCK BRACKETT '29 SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

MARTHA HAMILTON BRENNER SCHOLARSHIP FUND Established by E.C. Brenner '08.

HARRY BRITENSTOOL '01 SCHOLARSHIP FUND

DANIEL NOYES BROWN SCHOLARSHIP FUND Established in memory of Daniel Noyes Brown, P&S '32 for graduating seniors going into primary care medicine.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

DR. H. GRIFFIN BULLWINKEL '20 AND MRS. LOLA LENHART BULLWINKEL FUND Given by Mrs. Bullwinkler in memory of her husband, Columbia College Class of 1917, P&S Class of 1920.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

LISLE C. CARTER SCHOLARSHIP FUND Established through the generosity of the Emilie H. Siebert Trust, for disadvantaged minority students.

CHEEK (DR. JOANNE LLOYD-JONES) SCHOLARSHIP FUND Gift of Mrs. Arthur Rudd. Established in 1987.

ALONZO CLARK 1835 Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the 35th anniversary of its graduation.

CLASS OF 1912 Given by the class on the 15th anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the 25th anniversary of its graduation.

CLASS OF 1924 To commemorate the 50th anniversary of its graduation.

CLASS OF 1928 Given at its 10th reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the 25th anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the 25th anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the 10th anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1954 Given by members of the class.

CLASS OF 1958 Given by members of the class.

CLASS OF 1959 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

CLASS OF 1965 Given by members of the class.

HENRY D. CRUGER Request of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS '34 SCHOLARSHIP FUND Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DR. HERBERT JACKSON DESHON '30 SCHOLARSHIP FUND Established by bequest of Dr. DeShon, P&S '30.

DAVID M. DEVENDORF 1861 Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

MORRIS DINNERSTEIN '18 SCHOLARSHIP FUND

FRANCIS E. DOUGHTY 1869 Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE '61 Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE '13 Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ '22 Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

JOSEPH H. FRIES '29 MEMORIAL SCHOLARSHIP

DAVID GABERMAN '20 SCHOLARSHIP FUND

ARTHUR AND CORNELIA GANS SCHOLARSHIP FUND Bequest of Cornelia Gans to the College of Physicians and Surgeons to provide scholarships for needy and worthy students of American or Dutch nationality.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

NORMAN GOETZ '06 SCHOLARSHIP FUND

ROBERT I. GRAUSMAN '21 SCHOLARSHIP FUND Established by Grausman, P&S '21, and continued in his memory by family and friends.

JACOB HARSEN P&S 1825 SCHOLARSHIP FUND Given by Dr. Jacob Harsen.

FRANK HARTLEY 1880 SCHOLARSHIP FUND Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

HELEN HAYES Established by the College of Physicians and Surgeons to honor Miss Hayes for her four decades of service and devotion to the Helen Hayes Hospital, a New York State-owned Columbia affiliate.

HAROLD HELM Established by the College to honor Mr. Helm, for his statesmanship and leadership as a chairman of the Medi/Center I campaign and for all his efforts on behalf of the University.

WILLIAM H. HEMINGWAY

JEAN HENDERSON '21 MEMORIAL SCHOLARSHIP FUND

MARGARET & E. FREEMAN HERSEY '48 SCHOLARSHIP FUND

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

MADAME LEIN-SUN HO SCHOLARSHIP FUND Established by Dr. Karen K. Fu, P&S '67, in memory of her mother.

THE MILDRED HOFFBERG SCHOLARSHIP FUND Established in honor of Charles Flood '28 and his wife.

CHARLES EUGENE HUBER, SR. 1896 SCHOLARSHIP FUND Bequest of Francis D. Huber, Class of 1928, in memory of his father.

FRANCIS HUBER '28 SCHOLARSHIP Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber, Class of 1928.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

JAMES JAMESON '05 SCHOLARSHIP FUND

EDWARD R. JEAL Awarded to deserving students under the Faculty of Medicine.

D. REES JENSEN '25 SCHOLARSHIP FUND

CHARLES CHRISTIAN LIEB '06 Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MALCOLM X SCHOLARSHIP FUND Established by the College of Physicians and Surgeons to help further the education of black students interested in medical and public health problems prevalent in black communities.

MALLORY P&S SCHOLARSHIP FUND Established by Mrs. Louis Mallory in honor of Richard Stock '47.

HERBERT D. MANLEY '07 Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE P&S 1883 SCHOLARSHIP Given by Madeline Shelton Markoe, in memory of her husband.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber, Class of 1928.

ELIZABETH HALL McCULLOGH '33 Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCulloch, an alumna of the College of Physicians and Surgeons, Class of 1933.

ARTHUR B. MCGRAW '19 SCHOLARSHIP FUND IN CPMC FUND INC.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

MICHELSSEN SCHOLARSHIP FUND Established by Jost Michelsen '63.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif '39 and Duane Todd '52.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER '21 Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

RONALD C. PICOFF '60 MEMORIAL SCHOLARSHIP FUND Established in 1974 by Dr. Picoff's classmates.

TOUSSIA AND KERMIT PINES '42 SCHOLARSHIP FUND Endowed by Florence and Herbert Irving.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

JAMES RODISH MEMORIAL SCHOLARSHIP Established by family and friends in memory of James Rodish, to be awarded in alternate years to a student in the School of Nursing and a student in the College of Physicians and Surgeons.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

SAGAMORE Awarded to needy students.

JOSEPH E. SAPHIR '02 MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

ALMA SCHAPIRO ENDOWMENT FUND

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus' services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON '43 MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, JR. MEMORIAL Given by Dr. E.E. Stewart, Class of 1906, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF P&S 1886 Awarded to one or more students in their third or fourth years of medical school. Bequest of Miriam Sturmdorf.

DAVID TORNBERG '73 SCHOLARSHIP ENDOWMENT FUND

P. ROY VAGELOS '54 AND RANDALL VAGELOS '83 ENDOWMENT SCHOLARSHIP

HAROLD S. VAUGHAN '04 Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER P&S 1883 Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER '45 Given by Dr. I.S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

ISRAEL WEINSTEIN '26 FELLOWSHIP FUND

WHITING—Dr. FORDYCE B. St. JOHN '09 SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

DR. JAMES LANCELOT WILSON '16 Awarded to a student selected by the College of Physicians and Surgeons.

LYDIA AND DAVID WOLF SCHOLARSHIP FUND Given by Mr. and Mrs. Wolf to support a needy student of high academic standing and promise.

JOHN C. WOOD, JR. '76 MEMORIAL Established by family and friends in memory of Dr. Wood, Class of 1976.

WORTHAM '43M (MARION H. AND EDWIN III) MEMORIAL SCHOLARSHIP FUND

Gift Funds

ANONYMOUS SCHOLARSHIP '65

BALSO P&S ALUMNI SCHOLARSHIP

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

EATON '83 MEMORIAL

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

HARLOW KEITH HAMMOND TRUST SCHOLARSHIP FUND

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

RICHARD P. NESTI '61 SCHOLARSHIP

P&S ALUMNI SCHOLARSHIP

LOUIS AND RACHAEL RUDIN. Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

JULIUS E. STOLI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift by Judith Sulzberger '49. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

THORNTON SCHOLARSHIP

UNITED DOCTORS OF HARLEM HOSPITAL Annual gift awarded to entering minority students from the metropolitan area.

RALPH J. VEENEMA SCHOLARSHIP

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees. Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Health Professions Student Loans. Funds were originally allocated by the Bureau of Health Manpower of the Department of Health and Human Services to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus \$2,500. Loans are repayable to the school over a 10-year period beginning one year after completing or interrupting the prescribed full-time course of study.

Interest at the annual rate of 5 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program, except for a cap of two years' deferment during a Fellowship. Interest does not accrue during period of deferment.

Loans for Disadvantaged Students (LDS). This program began with the 1991-92 academic year, with limited funding from the Department of Health and Human Services. It provides long-term, low-interest loans to students from disadvantaged backgrounds with financial need. The interest rate (5 percent) and other provisions are essentially the same as those for the Health Professions Student Loan Program described above.

Federal Perkins Loans. Funds are allocated by the Department of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The maximum loan to a student in an academic year is \$5,000. The total (undergraduate and graduate school loans) available to a student from the program is \$30,000. The current interest rate, payable during the repayment period, is 5 percent on the unpaid principal. Repayment begins six months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service, during service in the Peace Corps or Volunteers in Service to America (VISTA), during service in the National Health Service Corps, or for up to two years during service in an internship required to begin professional practice.

Federal Stafford Loans. Under the auspices of the Office of Student Financial Assistance of the Department of Education, federally insured loans are available to students with demonstrated financial need. The loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is \$7,500, and the total outstanding loan balance at any one time may not exceed \$54,750. Lending institutions participating in this program can provide information regarding interest rates, repayment, and deferment of repayment.

Federal Supplemental Loan for Students is a federally insured loan program available to graduate students, who may borrow up to \$4,000 a year at a variable rate of interest, with a cap of 12 percent for loans disbursed before Oct. 1, 1992, and a cap of 11 percent for loans disbursed after Oct. 1, 1992. In 1992-93, the interest rate is 7.51 percent. In 1991-92, the interest rate was 9.2 percent. Repayment of the principal is deferred while students are in school full time, but interest accrues while enrolled. Since authorized deferments are similar to those for the Federal Stafford loan program, a student may continue to pay interest until deferments expire, beginning repayment of both principal and interest following that period. The aggregate indebtedness for graduate students is \$20,000 under this program. This loan must be taken at the same bank as the Stafford loan if a student borrows a Stafford loan in New York State. This rule may also apply in other states. Students who are not New York State residents should be able to obtain a federal SLS loan at a bank in New York if they are unable to borrow from their local lender.

Alternative Loan Program (ALP). A student is eligible if he/she: is currently enrolled in an approved AAMC member school at least half time, is a citizen or national of the United States or a permanent resident with proper evidence of eligibility, has not exceeded maximum loan limits, agrees to notify the loan holder of any change of permanent address or enrollment status, has all outstanding student loans in good standing, i.e., not in default, and/or all outstanding balances on student financial aid programs have been satisfied, meets credit criteria determined by HICA and the lender, and has exhausted Stafford and SLS eligibility. The minimum ALP loan is \$500, and the maximum is \$30,000 to \$35,000 (less all other loans borrowed during an academic year).

Health Education Assistance Loans. HEAL is a federally insured loan program available to students in the health professions. Currently, all HEAL lenders use a promissory note with a variable interest rate. The rate is reassessed quarterly and is calculated by taking the interest rate on the 91-day Treasury Bill plus an additional 3 percent. Interest on this loan begins to accrue immediately. There is a nine-month grace period after graduation. However, if the borrower becomes an intern or resident in an accredited program before that date, repayment will begin from nine to 12 months after the borrower exhausts the deferments for internships and residency (four years maximum) or fellowship (two years maximum) or ceases to be an intern or resident. Certain HEAL loan programs offer better interest rates and do not compound while the student is in school. Please contact the Office of Student Financial Planning about these loans.

P&S Dean's Loan. The Dean's loan fund is a program established by the College to offset the burden of high interest loans to students with a high degree of demonstrated financial need. The interest rate is 9 percent and does not accrue while the student is in school or postgraduate training.

University loan finds are also intended to supplement students' resources when monies are available. Included among these are the following funds:

PETER AMAZON '21 Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, JR. Used for the assistance of needy students in the medical school.

DR. HARRY BRITENSTOOL '01 MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER '41 Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

FRANK J. GILLESPIE FUND From the estate of Frank J. Gillespie. To be used for medical students interested in the field of surgery.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, JR. '41 Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, JR. REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

WILLIAM AND ROSE KEYBURTZ SCHOLARSHIP LOAN FUND Established by bequest of Dr. Orland L. Keyburtz in honor of his parents.

ROBERT ABBE MACKENZIE '21 Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S who need to move more than 300 miles from New York City for their residency training.

HENRY NIAS FOUNDATION LOAN FUND Gift of Stanley Edelman, Class of 1953.

JESSIE SMITH NOYES

P&S SCHOLARSHIP AND LOAN ENDOWMENT FUND Given by P&S alumni.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in 15 years; without interest for the first 10 years; with 5 percent annual interest thereafter on the unpaid balance.

MRS. AND DR. CLYDE WU, P&S '56 STUDENT LOAN FUND

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Health Sciences Office of Student Financial Planning.

Prizes

DR. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

VIRGINIA P. APGAR '33 AWARD Awarded to an outstanding graduate student for excellence in completing an advanced course in anesthesiology and intensive care. Established by the Department of Anesthesiology in honor of Virginia P. Apgar, Class of 1933.

MICHAEL H. ARANOW AWARD Awarded to the student who exemplifies the caring and humane qualities of the practicing physician.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

ALVIN BEHRENS MEMORIAL FUND AWARD of the Phi Lambda Medical Fraternity Given to an able student planning a career in ophthalmology.

DR. ROBERT BERTSCH AWARD Established by Dr. Bertsch's colleagues in the Department of Surgery to perpetuate the memory of this esteemed physician and dedicated teacher; to be awarded to a graduating student who best typifies the aims and ideals of this devoted surgeon.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D. PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

ROSAMOND KANE CUMMINS '52 AWARD Established by the Alumni Association for excellence in orthopedic surgery, to be given to a member of the graduating class who has demonstrated those special qualities of mind and heart that mark the comforter and healer.

THE MARION MERRELL DOW PRIZE IN GERIATRICS Given to a graduating medical student for outstanding achievement in investigative work in geriatrics.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

LOUIS GIBOFSKY MEMORIAL PRIZE Awarded to a senior student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky.

THE ARNOLD P. GOLD FOUNDATION AWARD Given to a graduating medical student who has demonstrated clinical excellence and the ideals of the humanitarian care giver.

THE DOCTOR CHARLES E. HAMILTON '81 AWARD Established by Mr. Andrew L. Gifuni to honor Dr. Hamilton, P&S Class of 1918, for excellence in pulmonary diseases.

JANEWAY '27 PRIZE Awarded to the student graduating from the College with the highest marks for achievement and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT '34 BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

JOHN K. LATTIMER PRIZE IN UROLOGY Awarded to senior students for the best essays on urological subjects.

LEMMON COMPANY STUDENT AWARD Given to a graduating student who has excelled in the study of obstetrics and gynecology or family practice.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfisch, in her husband's memory.

ADMIRAL DAVID WILLARD LYON AWARD Awarded to a senior student on a military scholarship for outstanding academic achievement. Established by Dr. Edgar Housepian, Class of 1953, and Mrs. David Willard Lyon in Memory of Admiral Lyon.

DOCTOR CECIL G. MARQUEZ BALSO STUDENT AWARD FOR EXCELLENCE Awarded to a graduating minority medical student for his/her outstanding contribution to the Black and Latin Student Organization and the minority communities.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

DR. HAROLD LEE MEIERHOF '17 MEMORIAL AWARD Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

MARIE NERCESSIAN MEMORIAL AWARD Gift of Ohannes Nercessian, Class of 1981. Awarded to a senior medical student (preferably of Armenian descent) who has shown care, unusual concern, and dedication to helping sick people.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER '48 AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, DR. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN ANATOMY AND CELL BIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in anatomy and cell biology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN BIOCHEMISTRY An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN GENETICS AND DEVELOPMENT An annual award to a graduating student or graduate student, who in scholarship and proficiency achieves the greatest distinction in genetics and development.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN PHYSIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in physiology.

THE SANDOZ AWARD Awarded to a graduating student for excellence in research.

THE REBECCA A. SCHWARTZ MEMORIAL PRIZE Given by Dr. and Mrs. Stephen Schwartz, Class of 1937, in memory of their daughter, to be awarded to an outstanding student on a pediatric cardiology elective.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

THE MIRIAM BERKMAN SPOTNITZ PRIZE Given by Dr. Hyman Spotnitz '39 in memory of Mrs. Spotnitz for outstanding research in the field of oncology.

DR. ALFRED STEINER '38 AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

UPJOHN ACHIEVEMENT AWARD For excellence in research by a graduating student.

DR. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of diseases of infants and children.

DR. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, Class of 1957, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled by the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded almost 100 years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the P&S Club president, assumes the entire responsibility for management of the Club. The cabinet consists of one club officer elected from each class and those who chair the various activities.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Alumni Association

The P&S Alumni Association serves to foster and maintain cordial relationships between the College of Physicians and Surgeons and its alumni. Liaison with the College is facilitated through the office of the Assistant Dean for Alumni Affairs.

Regular members of the Alumni Association include all those awarded the M.D. or Med.Sc.D. degrees from the College, as well as all Ph.D. graduates of the basic sciences curricula at P&S and those awarded the Certificate in Psychoanalytic Medicine. Associate members include faculty members of the College, all house staff members, and visiting fellows at hospitals affiliated with P&S.

The work of the Alumni Association is accomplished through the efforts of its officers and members of the 17 standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council. Among the important functions of the Association is participation in the publication of P&S, a magazine that is cosponsored by the alumni and the medical school and serves as a major form of communication between the school and its alumni, faculty, students and their parents, and other friends and associates of the College.

Restricted revenues raised by the Alumni Association provide funds for the student dormitory and scholarships at the College of Physicians and Surgeons. Unrestricted revenues allow the College flexibility in applying funds to areas of greatest need. Traditionally, a substantial stipend from unrestricted revenues goes to the P&S Club as well as to scholarship aid.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. Through their membership on the Student-Alumni Relations Committee, students and alumni work together in addressing students' needs and concerns.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 630 West 168th Street, New York, N.Y. 10032. Telephone (212) 305-3498.

The Program of Instruction

The first-year curriculum is devoted largely to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. Each fourth-year student is required to take a one-month elective in ambulatory care which includes clerkship experience in Public Health/Community Medicine. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system, and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (*Abnormal Human Biology*, *Introduction to the Patient*, and *Psychiatric Medicine I and II*), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: The First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board Examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of 12 weeks or less.

Basic Science and Introductory Clinic Courses of the First and Second Years

Abnormal Human Biology M6102

Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Enson; Endocrinology-Metabolism, Dr. Jacobs; Gastroenterology, Dr. Tall; Hematology, Dr. Bank; Immunology, Dr. Chess; Infectious Diseases, Dr. Neu; Oncology, Dr. Garret; Nephrology, Dr. Al-Awqati.

Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy M5101. Microscopic anatomy

Dr. Nunez and departmental staff.

Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy M5102. Human anatomy

Drs. April, Moss, and departmental staff.

Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy M5103. Human development

Dr. Silverman and departmental staff.

Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F—Microscopic anatomy*.

Biochemistry M5101. Introductory biochemistry

Dr. Gold and departmental staff.

Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics M5101. Medical genetics

Dr. Schon and associates.

Lectures and clinical presentations emphasizing the practice of clinical genetics and the application of principles of genetics to the medical specialties.

Medicine M6104. Society and medicine

Dr. Rothman and associates.

Lectures and preceptor sessions to explore some of the legal, social, and ethical considerations that structure decision making in medicine.

Medicine M6105. Introduction to the patient**Dr. Charon and associates.**

Clinical electives, lectures, and small group discussions introduce the student to the perspective of the patient, teach skills in medical interviewing, and examine the personal elements of the medical encounter.

Medicine M6106. Physical diagnosis**Dr. Siris and associates.**

An intensive four-week clerkship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student learns to take a comprehensive medical history and perform a complete physical examination.

Microbiology M5101. General microbiology**Dr. Hamish Young and departmental staff.**

Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology M6106. Neural science**Drs. Kandel, Kelly, Kupfermann, Rowland, and Schwartz.**

Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Pathology M6101. Pathology**Dr. Lefkowitz and departmental staff.**

Lectures, conferences, and laboratories emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems. Includes systemic pathology (light and electron microscope studies to elucidate the pathogenesis of findings in diseases) and neuropathology (studies of diseases of the nervous system). *Neuropathology M6106* may be taken as a separate course by graduate students only.

Pharmacology M6101. General and special pharmacology**Dr. Wit and departmental staff.**

Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine M5101. Introduction to Clinical Practice (ICP)**Dr. Park and associates.**

Lectures, small groups, and interdisciplinary days highlight common health problems of this era and introduce students to basic concepts in epidemiology, the patient-physician relationship, ethics, health care systems, nutrition, disease prevention, and health promotion.

Physiology M5101. Human physiology**Dr. Chase and departmental staff.**

Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry M5101. Psychiatric medicine, I**Dr. Cutler and departmental staff.**

Lectures and seminars presenting the salient features of normal development.

Psychiatry M6102. Psychiatric medicine, II**Dr. Cutler and departmental staff.**

Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health M6104. Parasitic diseases**Dr. Despommier and associates.**

Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year**Anesthesiology M7201. Clinical clerkship in anesthesiology****Dr. Curry and staff at the Presbyterian Hospital.**

A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a

patient and demonstrate on a patient or mannequin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannequin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe medications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology M7201. Clinical clerkship in dermatology
Dr. DeLeo and staff.

Medicine M7201. Clinical clerkship in medicine

Dr. Garvey and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
 Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology M7201. Clinical clerkship in neurology

Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital
 A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture, and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology M7202. Neurosurgery

Dr. Stein and staff at the Neurological Institute of the Presbyterian Hospital.
 Included in *Neurology M7201*.

Obstetrics and Gynecology M7201. Clinical clerkship in obstetrics and gynecology

Dr. Koulos and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
 A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology M7201. Clinical clerkship in ophthalmology

Dr. Donn and staff.

Orthopedic Surgery M7201. Clinical clerkship in orthopedic surgery

Dr. Dick and staff at the Presbyterian Hospital.
 On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology M7201. Clinical clerkship in otolaryngology

Dr. Blitzer and staff at the Presbyterian Hospital.
 A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics M7201. Clinical clerkship in pediatrics**Drs. Driscoll, Dower, and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.**

A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Psychiatry M7201. Clinical clerkship in psychiatry**Dr. Marcus and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.**

A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology M7201. Diagnostic radiology (medical)**Dr. Alderson and staff.****Radiology M7202. Diagnostic radiology (surgical)****Dr. Alderson and staff.****Rehabilitation Medicine M7201. Clinical rehabilitation medicine****Dr. Lieberman and staff at the Neurological Institute of the Presbyterian Hospital.**Included in *Neurology M7201*.**Surgery M7201. Clinical clerkship in surgery****Dr. Reemtsma and staff at the Presbyterian Hospital.**

A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery M7202. Lectures and demonstrations in surgical pathology**Dr. Reemtsma and staff; Dr. Perzin and staff.**

As part of the surgical clinical clerkship (*Surgery M7201*), these three one-and-a-half hour sessions per week describe various selected problems in surgical pathology. The didactic lectures are presented by the surgical "academic senior resident" (PGY5). This resident presents the clinical aspects of various surgical diseases and is assisted by a surgical pathology senior resident, who demonstrates gross specimens and microscopic slides appropriate to the topics and patients being discussed.

Urology M7201. Clinical clerkship in urology**Dr. Olsson and staff.**

During the clinical clerkship in urology students learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

Fourth Year

Interdepartment 301. Ambulatory care/public health selective**Dr. C. Ortiz-Neu, course coordinator.**

Each student in the fourth year is required to select an elective in ambulatory care, which includes clerkship experience in Public Health/Community Medicine. (For the rest of the Fourth Year see page 47 and the elective catalogue.)

Special Programs

Ph.D. Program

Under the aegis of the Graduate School of Arts and Sciences of Columbia University, Ph.D. programs are offered in the basic sciences departments of the College of Physicians and Surgeons. All students admitted in this program are provided full tuition, health insurance, and a stipend for personal expenses.

For application and information contact Dr. Philip Feigelson, Associate Dean, Office of Graduate Affairs, 701 West 168th Street, Room 406, New York, NY 10032, telephone (212) 305-8058, fax (212) 305-1031.

M.D.—Ph.D. Program

This is a cooperative program sponsored by the Graduate School of Arts and Sciences and the College of Physicians and Surgeons for students who have had a strong undergraduate program in science and have a strong commitment to biomedical research. The program allows students to work toward the Ph.D. degree in one of the disciplines listed below in addition to earning the M.D. degree.

Students who participate in the program are admitted to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences.

Students complete the basic science requirements of the medical program and enter a participating department of the Graduate School to carry out the Ph.D. program. They then complete the balance of the requirements for the M.D. degree.

The participating Ph.D. programs are:

Anatomy and Cell Biology	Microbiology
Biochemistry and Molecular Biophysics	Nutrition
Biological Sciences	Pathology
Chemistry	Pharmacology
Epidemiology	Physiology and Cellular Biophysics
Genetics and Development	Psychology
Statistics	

For additional information students should write to Dr. David Schacter, Chairman, Graduate Biomedical Sciences Advisory Committee, Department of Physiology and Cellular Biophysics, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

To apply, students should request an application from the College of Physicians and Surgeons. The application form provides instructions for students applying to the M.D.-Ph.D. program.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the methods and content needed to protect and improve the health of populations and communities. Methods available include those of biostatistics, epidemiology, the social sciences and management. Students choose from content areas including problems of the environment, health care delivery, international health, geriatrics and gerontology, maternal and child health, disease prevention and health promotion or concentrate in methodology. Students are prepared for careers as traditional public health officers or a wide variety of opportunities for research or practice in both the private and public sector of the economy. They develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student uses vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student registers concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degrees may be awarded simultaneously at the end of the fourth year; either degree may be awarded separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, or the Dean's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Integrated M.D.—Oral and Maxillofacial Surgery Program

This program is a cooperative effort of the College of Physicians and Surgeons, the School of Dental and Oral Surgery, and the Presbyterian Hospital. It has been designed to train specialists equipped to handle the expanded scope of maxillofacial surgical practice and to provide academic, research, and clinical leadership in this area. The program combines study for the M.D. degree at the College of Physicians and Surgeons with residency training in oral and maxillofacial surgery and general surgery at Presbyterian Hospital. Candidates must be accepted for admission to both the College of Physicians and Surgeons and the residency training program in oral and maxillofacial surgery. Interested candidates should request further information and an application form from Dr. Steven M. Roser, Division of Oral and Maxillofacial Surgery, School of Dental and Oral Surgery, 630 West 168th Street, New York, N.Y. 10032.

Programs in Occupational Therapy

The Programs in Occupational Therapy offer an entry-level M.S. degree, a post-professional M.S. degree, and the only joint M.S./M.P.H. degree (with the School of Public Health) in the country. The Programs provide students with a strong foundation in the major treatment areas and prepare them for work with all age groups in a variety of institutional, community, and private practice settings. Graduates of the programs have distinguished themselves as leaders in the profession, working as master clinicians, educators, researchers, administrators, and consultants. The structure of each program allows for multidisciplinary learning and practicum experiences with close faculty-students interaction. Specializations in education, administration, pediatrics, and gerontology/geriatrics are available at the advanced level.

Program in Physical Therapy

Columbia offers an entry-level Master of Science Physical Therapy Program. The goal of the curriculum is to prepare graduates who are self-directed generalists with clinical problem-solving skills. The Program provides a comprehensive foundation of basic principles in the art and science of physical therapy. Graduates are prepared to develop specialty skills, contribute to the leadership and growth of physical therapy, and advance the quality of health care through clinical research and collaboration with other professionals. The Master of Science degree is awarded upon completion of academic study, research, and clinical internships. Students complete an independent faculty-directed research project culminating in a master's thesis. The Program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association and is registered by the Department of Education of the State of New York.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a 12-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program Subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or the equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

Postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. Clinics, selected nutrition courses, seminars, and participation in research projects are offered to qualified individuals. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs. Postdoctoral training is also available for qualified individuals holding either a doctorate in dentistry or a Ph.D. degree who plan to pursue a career teaching in dental schools and doing research related to nutrition and oral health.

Inquiries concerning the above programs may be directed to the Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Endowed Lectureships and Visiting Professorships

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund*, established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A.M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *Ludwig Schaefer Visiting Professorship* was established by the bequest of the late Ludwig Schaefer to encourage and promote research work in the sciences of human physiology. It provides for the appointment of a visiting professor for six months, from parts of the world other than North and South America.

The *David Seegal Lectureship and Visiting Professorship Fund*, given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize*, the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Charles W. Bohmfalk Memorial Prizes for Distinguished Contributions to Teaching in the Preclinical Sciences* and for *Teaching in the Clinical Sciences*, established in memory of a graduate of the class of 1883 and given to a member of the faculty for significant contributions to educational programs of the College.

The *Dr. Harold and Golden Lamport Research Awards* were initiated in 1983 to recognize outstanding young researchers in basic science and in clinical science.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Dean's Award for Excellence in Research* is awarded to the graduating Ph.D. student, selected by a joint faculty and student committee, whose thesis research was most original and distinguished.



Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospital for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in the hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.



Departments of Instruction

Listed are faculty appointments as of July 1, 1992.

The designation "also" indicates that the faculty member holds appointments in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in".

Anatomy and Cell Biology

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Anthony Bellve (in Urology and the Center for Reproductive Sciences). *B.Ag.Sc., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*

Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Ronald K. H. Liem (also Pathology) (in the Center for Neurobiology & Behavior). *B.A., Amherst, 1967; M.S., Cornell, 1969; Ph.D., 1973*

Carol Mason (also Pathology) (in the Center for Neurobiology & Behavior). *B.S., Chatham, 1967; M.A., California (Berkeley), 1969; Ph.D., 1973*

Melvin L. Moss (also Dental and Oral Surgery). *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*

Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*

Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

Virginia M. Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Dominique Toran-Allerand (in the Center for Reproductive Sciences). *B.A., Smith, 1955; M.D., Albany Medical College, 1959*

Professor of Clinical Neurochemistry

Hadassah Tamir (in Psychiatry). *M.S., Hebrew (Jerusalem), 1955; M.D., Israel Institute of Technology, 1959*

Associate Professors

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*

Jeannette C. Bulinski (also Pathology). *B.A., Colorado, 1973; Ph.D., Wisconsin, 1980*

David R. Colman (also Pathology) (in the Center for Neurobiology & Behavior). *B.A., New York University, 1970; Ph.D., State University of New York (Downstate), 1977*

Richard H. Kessin. *B.A., Yale, 1966; Ph.D., Brandeis, 1971*

Lorna Role (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1975; Ph.D., 1981*

Ira A. Tabas (also Medicine). *B.S., Tufts, 1975; M.D., Washington, 1981*

Associate Professor of Clinical Neurobiology & Behavior

Samuel M. Schacher (in Psychiatry). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*

Research Scientists

- Alcmene Chalazonitis. *B.S., d'Aix-Marseille (France), 1965; M.S., 1970; Ph.D., Louis Pasteur (France), 1975*
 John E. Pinter (in the Center for Reproductive Sciences and the Center for Neurobiology & Behavior). *B.A., Case Western Reserve, 1970; Ph.D., Oregon, 1977*
 Taube Pearl Rothman (also the Center for Neurobiology & Behavior). *B.A., City College of New York, 1969; Ph.D., Cornell, 1975*
 Joan W. Witkin. *M.A., Columbia, 1975; Ph.D., 1981*

Assistant Professors

- Gregg G. Gundersen (also Pathology). *B.S., Wisconsin, 1977; Ph.D., Washington, 1983*
 Annette L. Kirchgessner. *B.A., Hunter, 1979; M.A., Queens, 1981; Ph.D., State University of New York (Brooklyn), 1985*
 Liza A. Pon. *B.A., California (Berkeley), 1981; Ph.D., Tufts, 1986*
 Michael M. Van Lookeren. *B.S., Leiden, 1981, M.S., 1983; Ph.D., 1988*

Assistant Professor of Pathology

- Eugene E. Marcantonio. *B.A., Rutgers, 1977; M.D., Ph.D., New York University, 1984*

Adjunct Assistant Professors

- Craig H. Bailey (in Psychiatry and the Center for Neurobiology & Behavior). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*
 Larry D. Witte. *B.S., Iowa State University, 1970; Ph.D., 1974*

Assistant Professor of Clinical Psychiatry

- Stephen G. Rayport (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1975; Ph.D., Columbia, 1981; M.D., 1982*

Associate Research Scientists

- Jing-Xian Chen. *M.D., Chaohu (China), 1974; M.S., Anhui (China), 1983; Ph.D., Shanghai (China), 1989*
 Elena Fiorica-Howells. *Ph.D., Milan (Paris), 1980*
 Marthe J. Howard. *B.A., California, 1973; M.A., San Francisco State, 1978; Ph.D., California, 1984*
 Tuan Duc Pham. *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M. Phil., Ph.D., Columbia, 1975*
 Robert Schmied. *B.A., Cornell, 1972; M.A., Hunter, 1978; Ph.D., Columbia, 1987*
 Paul L. Wade. *B.S., Nebraska, 1975; M.S., Kansas State, 1978; Ph.D., Nevada, 1987*
 Daniel R. Webster. *B.A., DePaul, 1978; Ph.D., Miami, 1984*

SPECIAL LECTURER

- Robin M. Rankow, M.D.

Anesthesiology

E. M. Papper Professor and Chairman

- Edward D. Miller, Jr. *B.A., Wesleyan, 1964; M.D., Rochester, 1968*

At Presbyterian Hospital

Professors

- Henrik H. Bendixen. *M.D., Copenhagen, 1951*
 Mieczyslaw Finster (also Obstetrics & Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
 Allen I. Hyman. *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
 Hisayo Morishima (in Obstetrics & Gynecology). *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo 1960*
 Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
 Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Professors of Clinical Anesthesiology

- Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
 Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*
 Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
 Peter T. Rothstein (also Pediatrics). *B.A., Brandeis, 1966; M.D., Albert Einstein, 1970*
 Jen-Tien Wung (in Pediatrics). *M.D., Taipei Medical College, 1966*

Clinical Professor

- Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*

Senior Research Scientist

- Salha S. Daniel (also Pediatrics). *B.S., London, 1954; Ph.D., 1957*

Associate Professors

- Arthur D. Finck. *B.S., Lafayette, 1969; M.D., Columbia, 1972*
 Leila M. Pang. *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
 J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
 William L. Young. *B.A., Indiana, 1976; M.D., 1979*

Associate Professors of Clinical Anesthesiology

- Ellise S. Delphin. *B.A., Barnard, 1971; M.D., Columbia, 1975*
 Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
 Hoshang Jal Khambatta. *M.D., Karachi, 1958*
 Eugene Ornstein. *M.S., Polytechnic Institute of Brooklyn, 1973; Ph.D., 1977; M.D., Miami (Florida), 1979*
 Charles Weissman (also Medicine). *B.A., Yeshiva, 1972; M.D., State University of New York (Downstate), 1976*

Associate Professor of Clinical Bioengineering

- Alvin Wald. *B.E.E., Cooper Union, 1955; M.E.E., Polytechnic Institute of Brooklyn, 1960; Ph.D., New York University, 1974*

Associate Professor of Clinical Psychology

- Robert Dworkin (in Psychiatry). *B.A., Pennsylvania, 1971; Ph.D., Harvard, 1977*

Associate Clinical Professors

- Keith J. Bernstein. B.A., *New York University*, 1968; M.D., *State University of New York (Downstate)*, 1974
 Anthony R. Brown. M.B., Ch.B., *Capetown (South Africa)*, 1972
 Kathryn A. W. Cozine. M.D., *Johns Hopkins*, 1961
 Pat J. Martin. M.D., *Columbia*, 1974
 Samantha Mullis. B.S., *Michigan State*, 1975; M.D., 1979
 Richard K. Raker. B.A., *Michigan (Ann Arbor)*, 1969; M.D., 1973
 Peter L. Salgo (also Medicine). B.A., *Columbia*, 1971; M.D., 1975

Research Scientists

- Subhash Jamdar. B.S., *Government Science (Nagpur)*, 1960; Ph.D., *Nagpur*, 1966
 Yvonne Vulliemoz (also Pharmacology). M.S., *Lausanne*, 1958; Ph.D., *Paris*, 1969

Assistant Professors

- Mitchell F. Berman. B.A., *Brown*, 1977; M.D., *Michigan* 1981; M.P.H., *Harvard*, 1983
 Sandra Curry. B.A., *Cornell*, 1974; M.D., 1982
 Marc L. Dickstein. B.A., *Pennsylvania*, 1983; M.D., *Columbia*, 1987
 Eric J. Heyer (also Neurology). B.S., *Chicago*, 1968; M.D., Ph.D., *Albert Einstein*, 1975
 Douglas T. Jackson. J.D., *New York University*, 1974; M.D., *Temple*, 1983
 Desmond A. Jordan. B.S., *Cornell*, 1974; M.D., *Brown*, 1979
 Robert Kazim. B.A., *Columbia*, 1983; M.D., 1987
 Matthew T. Levine. B.A., *State University of New York (Buffalo)*, 1980; M.D., *Tel Aviv (Israel)*, 1984
 Michael Luvín. B.S., M.D., *Union*, 1983
 John S. Mercer. B.S., *Scranton*, 1980; M.D., *College of Medicine and Dentistry of New Jersey*, 1987
 William Schechter. B.A., *Columbia*, 1976; M.S., *New York University*, 1978; M.D., *State University of New York (Buffalo)*, 1982
 Arthur E. Schwartz. B.S., *Rensselaer Polytechnic Institute*, 1978; M.D., *State University of New York (Downstate)*, 1982
 Steven M. Shulman. B.A., *Massachusetts*, 1978; M.D., 1984
 Richard N. Siegfried. B.A., *Pennsylvania*, 1983; M.D., *State University of New York (Downstate)*, 1987
 Wendy B. Silverstein. B.A., *New York University*, 1982; M.D., 1986
 Eric L. Skolnick. B.A., *Queens (New York)*, 1976; M.D., *Medical College of Pennsylvania*, 1980
 Arthur J. Smerling. B.A., *Yeshiva*, 1976; M.D., *Pittsburgh*, 1980
 Richard M. Smiley. B.S., *Massachusetts Institute of Technology*, 1977; M.A., *Columbia*, 1978; Ph.D., 1981; M.D., *Miami*, 1983
 Lena S. Y. Sun. B.S., *Massachusetts Institute of Technology*, 1975; M.D., *Mt. Sinai*, 1979
 Howard A. Zucker (also Pediatrics). B.S., *McGill*, 1979; M.D., *George Washington*, 1982

Assistant Professors of Clinical Anesthesiology

- Dorothy A. Black. B.A., *Rutgers*, 1957; M.A., *Columbia*, 1959; M.D., *Harvard*, 1965
 Albert Faltas. M.D., *Kasr-El-Ainy Medical School (Egypt)*, 1961
 Ingrid Anne-Marie Fitz-James. B.A., *Sarah Lawrence*, 1973; M.D., *Columbia*, 1977
 Laurence P. Mark. B.S., *Harvey Mudd*, 1975; M.D., *Columbia*, 1979
 Gerald S. Weinberger. M.D., *New York University*, 1948

Assistant Professor of Clinical Comparative Anesthesiology

- Sulli J. Popilskis (in the Institute of Comparative Medicine). D.V.M., *Lithuanian Veterinary Academy*, 1983

Associate Research Scientist

Noeleen D. Ostapkovich. *B.A., San Diego State, 1977*

SPECIAL LECTURER

Vance R. Lauderdale, Jr., *M.D.*

ASSOCIATE IN CLINICAL ANESTHESIOLOGY

June Walker, *B.A.*

At Mary Imogene Bassett Hospital**Associate Clinical Professor**

Andrew L. Rauscher. *M.B., London, 1963; M.B., B.S., 1966*

Assistant Clinical Professors

Kevin E. Macadag. *B.A., Western (Michigan), 1983; M.D., Wayne State, 1987*

Edward Palmer. *B.A., Dartmouth, 1967; M.D., Cornell, 1971*

John F. Piper. *B.S., Hobart, 1981; M.D., State University of New York (Syracuse), 1986*

At Harlem Hospital Center**Assistant Professors of Clinical Anesthesiology**

Yvetot Antoine. *M.D., State University of Haiti, 1962*

Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*

J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1964*

Assistant Clinical Professors

Clarissa P. Carino. *B.S., Far Eastern (Manila), 1966; M.D., 1968*

Young In Choi. *M.D., Ewha Woman's University (Seoul), 1975*

Jacques Dole. *M.D., Medical School of Port-au-Prince (Haiti), 1972*

Moe M. Myint. *M.B., B.S., Institute of Medicine I, (Rangoon, Burma), 1970*

Jung Kic Park. *B.S., Soyang (Seoul), 1972; M.D., Han Yang (Seoul), 1977*

SPECIAL LECTURER

Samuel C. Brisbane, *M.D.*

At Overlook Hospital**Assistant Clinical Professors**

John Rocco Calabro. *B.S., Manhattan, 1971; M.D., College of Medicine and Dentistry of New Jersey, 1975*

Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*

Demetrios B. Kalas. *M.D., Aristotelian, 1954*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Sami A. M. Abadir, *M.D.*

Jane De V. Stark, *M.D.*

Carol Zimmerman, *M.D.*

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Anesthesiology

Daniel M. Thys. *M.D., Catholic University (Leuven, Belgium), 1972*

Associate Professor of Clinical Anesthesiology

Zaharia Hillel. *B.S., City College of New York, 1971; Ph.D., Albert Einstein, 1977; M.D., Miami, 1981*

Assistant Professors of Clinical Anesthesiology

David J. Birnbach. *M.D., Royal College of Surgeons, 1984*

Enzio Gallozzi. *M.D., Rome, 1953*

Ignacia U. Ngo. *A.A., University of the East (Manila), 1959; M.D., 1964*

Kenneth Zahl. *A.B., New York University, 1977; M.D., Columbia, 1981*

ASSOCIATE IN CLINICAL ANESTHESIOLOGY

Guglielmina Bettinti, *M.D.*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Gary S. Feldstein, *M.D.*

Dilber Hussein, *M.D.*

Zdan J. Korduba, *M.D.*

Nirmal V. Patel, *M.D.*

Biochemistry and Molecular Biophysics

Robert Wood Johnson, Jr., Professor and Chairman

David I. Hirsh. *B.A., Reed, 1961; Ph.D., Rockefeller, 1968*

Professors

Richard Axel (Eugene Higgins Professor) (also Pathology) (in the Institute of Cancer Research). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*

Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*

Kathryn L. Calame. (also Microbiology). *B.S., Missouri, 1962; M.S., George Washington, 1965; Ph.D., 1975*

Kurt Drickamer. *B.S., Stanford, 1973; Ph.D., Harvard, 1978*

Philip Feigelson. *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*

Stephen Goff (Eugene Higgins Professor) (also Microbiology). *B.A., Amherst, 1973; Ph.D., Stanford, 1978*

Robert F. Goldberger. *M.D., New York University, 1958*

Maxwell Gottesman (Charles H. Revson Professor) (also Microbiology) (in the Institute of Cancer Research). *M.D., Yale, 1960; Ph.D., 1965*

Wayne Hendrickson. *B.A., Wisconsin, 1963; Ph.D., Johns Hopkins, 1968*

Barry Honig. *B.S., Polytechnic Institute of Brooklyn, 1963; M.A., Johns Hopkins, 1964; Ph.D., Weizmann Institute (Israel), 1968*

Thomas Jessell (in the Center for Neurobiology & Behavior). *B. Pharm., London, 1973; Ph.D., Cambridge, 1974*

Arthur Karlin (Eugene Higgins Professor of Neurology) (also Neurology and Physiology & Cellular Biophysics). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*

Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*

Dinshaw Patel. *Ph.D., New York University, 1966*

Parithchery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

Adjunct Professor

Benno P. Schoenborn. *B.A., California (Los Angeles), 1958; Ph.D., New South Wales, 1962*

Senior Research Scientist

Frederick W. Alt (also Microbiology). *B.S., Brandeis, 1971; Ph.D., Stanford, 1978*

Associate Professor

Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*

Adjunct Associate Professor

John D. Karkas. *Ph.D., Columbia, 1962*

Research Scientists

Philip E. Bourne. *B.S., Flinders (Australia), 1974*

Stuart G. Fischer. *B.S., Chicago, 1965; M.Ed., Columbia, 1967; Ph.D., Princeton, 1977*

Eftihia Tzilianos. *Ph.D., Wirwatersrand (South Africa), 1972*

Assistant Professors

Aneel K. Aggarwal. *B.S., Kings College (London), 1981; Ph.D., 1984*

Richard K. Assoian (in the Center for Reproductive Sciences). *Ph.D., Chicago, 1981*

Robert S. Cohen (in Urology and the Center for Reproductive Sciences). *B.S., Delaware, 1978; Ph.D., Southern California, 1982*

Mitchell Goldfarb. *Ph.D., Massachusetts Institute of Technology, 1979*

Richard S. Mann (in the Center for Reproductive Sciences). *B.S., Cornell, 1980; Ph.D., Massachusetts Institute of Technology, 1986*

Arthur G. Palmer. *B.A., Haverford, 1980; M.S., Michigan, 1986; Ph.D., North Carolina, 1989*

Associate Research Scientists

Francis K. Athappilly. *B.S., Calicut (India), 1977; M.S., 1979*

Cynthia M. Czajkowski. *B.A., New York University, 1979; Ph.D., State University of New York (Downstate), 1987*

Richard A. Friedman. *B.A., New York University, 1971; M.S., 1974; Ph.D., 1977*

John M. Hubbard. *B.S., California (Berkeley), 1983; Ph.D., 1989*

Daniel J. Leahy. *B.S., Yale, 1982; Ph.D., Stanford, 1988; M.D., 1989*

Anthony Nicholls. *B.A., Oxford, 1982; Ph.D., Florida, 1988*

Veeramac K. Prasad. *Ph.D., City University of New York, 1979*

An-Suei Yang. *B.Sc., National Tsing Hua (Taiwan), M.S., Johns Hopkins, 1985; Ph.D., 1986*

SPECIAL LECTURERS

Erwin Chargaff, Ph.D.

Isidore S. Edelman, Ph.D.

Max A. Eisenberg, Ph.D.

Dezider Grunberger, Ph.D.

Seymour Lieberman, Ph.D.

Barbara Low, D.Phil.

Maurice M. Rapport, Ph.D.

David B. Sprinson, Ph.D.

Dermatology

Clinical Professor and Acting Chairman

Robert R. Walther. *B.A., Cornell, 1969; M.D., North Carolina, 1973*

At Presbyterian Hospital

Professor

Leonard C. Harber (Richard & Mildred Rhodebeck Professor) (also Public Health) (Environmental Health Sciences). *B.A., Johns Hopkins, 1949; M.D., New York University, 1953*

Professor of Clinical Dermatology

Richard Scher. *B.A., New York University, 1949; M.A., Brooklyn, 1951; M.D., Howard, 1955; M.S., New York University, 1960; M.A., Brown, 1984*

Clinical Professors

Marc E. Grossman. *B.A., State University of New York (Buffalo), 1970; M.D., Pennsylvania, 1975*

Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1952*

David N. Silvers (also Pathology). *B.A., Haverford, 1964; M.D., Duke, 1968*

Associate Professor of Clinical Dermatology

Carole Louise Berger (also Pathology). *B.S., College of the City of New York, 1966; M.A., Columbia, 1971; M.S., 1975; Ed.D., 1976; Ph.D., 1984*

Associate Clinical Professors

Robert B. Armstrong. *B.A., Haverford, 1969; M.D., Columbia, 1973*

Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York (Downstate), 1956*

Richard L. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*

Gregory Zalar. *B.S., George Washington, 1965; M.D., 1969*

Assistant Professors

Vincent De Leo (George Henry Fox Assistant Professor). *B.S., Louisiana State, 1965; M.D., 1969*

Janet H. Prystowsky (Herbert Irving Assistant Professor). *B.S., Pennsylvania State, 1974; M.S., Columbia, 1975; Ph.D., 1979; M.D., Chicago, 1983*

Assistant Professor of Public Health

Mary S. Matsui (Environmental Health Sciences) (in Dermatology). *B.A., Knox, 1973; M.S., Drexel, 1979; Ph.D., Columbia, 1986*

Assistant Clinical Professors

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York (Downstate), 1954*

Alan D. Andrews. *B.S., Illinois, 1968; M.D., Virginia, 1972*

William G. Atwood. *A.B., Harvard, 1954; M.D., Columbia, 1958*

Vincent S. Beltrani. *B.A., Brooklyn, 1953; M.D., Columbia, 1957*

Leon K. Demar. B.A., *Haverford*, 1967; M.D., *New York University*, 1973
 Yehuda D. Eliczri. B.A., *Brooklyn*, 1966; M.S., *Yeshiva*, 1971; M.D., *Western Ontario*, 1976
 Robert B. Feinstein. M.D., *New York University*, 1967
 Anthony N. Gregory. B.A., *Davidson*, 1974; M.P.H., *Chapel Hill*, 1977; M.D., 1984
 Eric W. Herman. B.A., *State University of New York (Buffalo)*, 1972; M.D., *Mt. Sinai*, 1976
 Cheryl S. Hutt. B.A., *Barnard*, 1974; M.D., *Columbia*, 1978
 Einar A. Juhlin. B.S., *Illinois*, 1950; M.D., *Royal Charles (Sweden)*, 1957
 Bruce Elliot Katz. B.S., *McGill*, 1973; M.D., 1977
 Jeffrey S. Kezis. M.D., *Hahnemann*, 1970
 Elizabeth H. Knobler. B.A., *Skidmore*, 1972; M.P.H., *Columbia*, 1974; M.D., *State University of New York (Stony Brook)*, 1984
 Asher D. Rabinowitz. B.A., *Yeshiva*, 1970; M.D., *George Washington*, 1974
 Jack H. Rozen. B.S., *Pittsburgh*, 1958; M.D., 1962
 Paul Ira Schneiderman. B.S., *Wisconsin*, 1967; M.D., *State University of New York (Syracuse)*, 1971
 Robert S. Seibt. B.A., *St. Olaf*, 1971; M.D., *Minnesota*, 1978
 Eugene W. Sweeney. B.S., *Manhattan*, 1956; M.D., *New York Medical College*, 1960
 Arnold Charles Toback. B.A., M.D., *Boston*, 1980
 Harvey I. Weinberg. B.A., *Brooklyn*, 1965; M.D., *State University of New York (Buffalo)*, 1969

Assistant Clinical Professor of Psychiatry

Iona H. Ginsburg (in Dermatology). B.A., *Vassar*, 1953; M.D., *Columbia*, 1957

Associate Research Scientist

Betty Kong. B.S., *Columbia*, 1972; Ph.D., *State University of New York (Downstate)*, 1978

SPECIAL LECTURER

Margarita Hutner, M.D.

LECTURERS

Richard L. Edelson, M.D.
 Francisco Kerdel-Vegas, M.D.
 Robert Knobler, M.D.
 Steven R. Kohn, M.D.

ASSOCIATES IN CLINICAL DERMATOLOGY

Laila M. Almeida, M.D.
 Rhonda Koenig Berkowitz, M.D.
 Robert Michael Bernstein, M.D.
 Alice E. Cardullo, M.D.
 Timothy J. Corey, M.D.
 William J. Cunningham, M.D.
 Danielle E. Engler, M.D.
 Charles L. Halasz, M.D.
 Ruth Kaplan-Treiber, M.D.
 Elizabeth Konecky, M.D.
 Joseph Penner, M.D.
 Deborah A. Wiener Rabner, M.D.
 Margaret S. Ravits, M.D.

ASSOCIATES (continued)

Daniel M. Rosenthal, M.D.
 Jeffrey Alan Sklar, M.D.
 Luis S. Suarez, M.D.
 Jo-Ann Szyllit, M.D.

INSTRUCTORS IN CLINICAL DERMATOLOGY

Johanna Baeuerle, M.D.
 David E. Bank, M.D.
 Vincent P. Beltrani, M.D.
 Philip Bruder, M.D.
 Annette A. Cohen, M.D.
 Mary C. Cole, M.D.
 Melanie Grossman, M.D.
 Barbara L. Lukash, M.D.
 Martha J. Maso, M.D.
 Michael A. Mann, M.D.
 Sheryl R. Miller, M.D.
 Amy Elaine Newburger, M.D.
 Barry M. Pomerantz, M.D.
 Mitchell J. Ross, M.D.
 Karin H. Satra, M.D.
 Sylvia M. Suarez, M.D.
 Michael J. Yunakov, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

William W. Stocker (also Medicine). A.B., *Harvard*, 1966; M.D., *Case Western Reserve*, 1970

At Morristown Memorial Hospital

Associate Clinical Professor

Emil Bisaccia (also Medicine). *B.A.*, *Ohio State*, 1974; *M.D.*, *Medical College of Ohio*, 1979

At St. Luke's-Roosevelt Hospital Center

Clinical Professor

Alexander W. Young, Jr. *B.S.*, *Maryland*, 1944; *M.D.*, 1946

Assistant Clinical Professors

William P. DiPietro. *B.S.*, *Massachusetts Institute of Technology*, 1972; *M.D.*, *Georgetown*, 1976

Herbert H. Hochman. *B.A.*, *Columbia*, 1966; *M.D.*, *Tulane*, 1970

Peter C. Lombardo. *B.S.*, *Rochester*, 1955; *M.D.*, *Albany*, 1959

David Sibulkin. *B.A.*, *New York University*, 1962; *M.D.*, 1966

ASSOCIATE IN CLINICAL DERMATOLOGY

Stanley J. Lewis, *M.D.*

Genetics and Development

Eugene Higgins Professor and Acting Chairman

Argiris Efstratiadis. *Dr. Med. Sc.*, *Athens (Greece)*, 1971; *M.D.*, 1966; *Ph.D.*, *Harvard*, 1976

Professors

Arthur Bank (also Medicine). *B.A.*, *Columbia*, 1956; *M.D.*, 1960

Marian B. Carlson (also Microbiology) (in the Institute of Cancer Research). *B.A.*, *Radcliffe*, 1973; *Ph.D.*, *Stanford*, 1978

Franklin D. Costantini. *B.S.*, *Yale*, 1974; *Ph.D.*, *California Institute of Technology*, 1980

Georgiana Jagiello (also Virgil G. Damon Professor of Obstetrics & Gynecology) (in the Center for Reproductive Sciences). *B.A.*, *Boston*, 1949; *M.D.*, *Tufts*, 1955

Jurg Ott (in Psychiatry). *Ph.D.*, *Zurich*, 1967; *M.S.*, *Washington*, 1972

I. Bernard Weinstein (also Frode Jensen Professor of Medicine) (also Public Health) (in the Comprehensive Cancer Center). *B.S.*, *Wisconsin*, 1951; *M.D.*, 1955

Adjunct Professors

Andrew P. McMahon (also Biological Sciences). *Ph.D.*, *London*, 1981

Michael H. Wigler. *B.A.*, *Princeton*, 1970; *M.S.*, *Rutgers*, 1972; *Ph.D.*, *Columbia*, 1978

Professor of Clinical Genetics

Dorothy Warburton (in Pediatrics). *B.S.*, *McGill*, 1957; *Ph.D.*, 1961

Professors of Clinical Psychiatry

L. Erlenmeyer-Kimling. *B.S.*, *Columbia*, 1957; *Ph.D.*, 1960

John D. Rainer. *B.A.*, *Columbia*, 1941; *M.A.*, 1944; *M.D.*, 1951

Associate Professors

- T. Conrad Gilliam (in Psychiatry). *Ph.D., Missouri, 1981*
 Rodney J. Rothstein. *B.S., Illinois, 1969; Ph.D., Chicago, 1975*
 Eric A. Schon (in Neurology). *B.S., Columbia, 1968; M.S., Cincinnati, 1973; Ph.D., 1982*
 Gary Struhl (in the Center for Neurobiology & Behavior). *B.S., Massachusetts Institute of Technology, 1976; M.S., 1976; Ph.D., Cambridge, 1980*
 Leonardus Van der Ploeg. *B.S., Amsterdam, 1980; Ph.D., 1984*
 Debra Wolgemuth (in Obstetrics & Gynecology and the Center for Reproductive Sciences). *B.A., Gettysburg, 1969; M.A., Vanderbilt, 1971; M.Phil., Columbia, 1975; Ph.D., 1977*

Assistant Professors

- Maggi Allan (in Medicine). *B.A., Stirling (Scotland), 1975; Ph.D., Glasgow, 1979*
 Andrew Tomlinson (in the Center for Neurobiology & Behavior). *B.A., Manchester (England), 1979; Ph.D., Open University (Milton Keynes, England), 1983*

Associate Research Scientists

- Harlow K. Fischman. *B.A., Brooklyn, 1955; M.S., Arkansas, 1960; Ph.D., New York University, 1968*
 Pierre C. Jelen. *M.S., Paris, 1970; Ph.D., Columbia, 1977*
 James J. Russo. *B.S., St. John's, 1974; M.S., New York University, 1977; Ph.D., 1981*
 Ming Tsung Yu. *B.S., Tunghai (China), 1959; Ph.D., Illinois, 1969*
 Peisen Zhang. *M.S., Academia Sinica (Beijing), 1981; Ph.D., Rutgers, 1989; M.S., 1990*

Adjunct Associate Research Scientist

- Doris Bo-shan Tse. *A.B., Vassar, 1972; M.A., Columbia, 1981; Ph.D., 1985*

Medicine

Samuel Bard Professor and Chairman

- Myron L. Weisfeldt. *B.A., Johns Hopkins, 1962; M.D., 1965*

At Presbyterian Hospital

Professors

- Qais Al-Awqati (Robert F. Loeb Professor) (also Physiology & Cellular Biophysics). *M.B., Ch.B., Baghdad, 1962*
 Arthur Bank (also Genetics & Development). *B.A., Columbia, 1956; M.D., Harvard, 1960*
 J. Thomas Bigger (also Pharmacology). *B.A., Emory, 1955; M.D., Georgia, 1960*
 John P. Bilezikian (also Pharmacology). *A.B., Harvard, 1965; M.D., Columbia, 1969*
 Vincent P. Butler, Jr. *A.B., St. Peter's, 1949; M.D., Columbia, 1954*
 Peter R. B. Caldwell. *A.B., Dartmouth, 1954; M.D., Harvard, 1958*
 Robert E. Canfield (Herbert and Florence Irving Professor) (in the Irving Center for Clinical Research). *B.S., Lehigh, 1952; M.D., Rochester, 1957*
 Paul J. Cannon (Harold Ames Hatch Professor). *B.A., Holy Cross, 1954; M.D., Harvard, 1958*
 Leonard Chess. *B.S., Massachusetts Institute of Technology, 1964; M.D., State University of New York (Downstate), 1968*
 Michael Field (also Physiology & Cellular Biophysics). *B.A., Chicago, 1953; M.D., Boston, 1959*

- Andrew G. Frantz. *A.B., Harvard, 1951; M.D., Columbia, 1955*
 Henry N. Ginsberg. *B.A., Brooklyn, 1966; M.D., State University of New York (Downstate), 1970*
 John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
 John N. Loeb. *A.B., Harvard, 1957; M.D., 1961*
 Harold C. Neu (also Pharmacology). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
 Milton Packer. *B.S., Pennsylvania State, 1969; M.D., Jefferson, 1973*
 Benvenuto Pernis (also Microbiology). *M.D., Milan, 1947*
 Alan R. Tall. *M.B., B.S., Sydney (Australia), 1970*
 Donald F. Tapley (Alumni Professor). *B.S., Acadia, 1948; M.D., Chicago, 1952*
 Gerald E. Thomson (Samuel W. Lambert Professor). *B.S., Queens, 1955; M.D., Howard, 1959*
 I. Bernard Weinstein (Frode Jensen Professor) (also Public Health and Genetics & Development) (in the Comprehensive Cancer Center). *B.S., Wisconsin, 1951; M.D., 1955*

Professor of Medical Informatics

- Paul Clayton (also Radiology). *B.A., Utah, 1966; M.S., Arizona, 1969; Ph.D., 1973*

Professor of Social Medicine

- David J. Rothman (Bernard Schoenberg Professor) (in the Center for the Study of Society and Medicine). *B.A., Columbia, 1958; M.A., Harvard, 1959; Ph.D., 1964*

Adjunct Professor

- Robert I. Levy. *B.A., Cornell, 1957; M.D., Yale, 1961*

Professors of Clinical Medicine

- Gerald B. Appel. *B.A., Cornell, 1968; M.D., Albert Einstein, 1972*
 Ronald E. Drusin. *B.S., Union (Schenectady), 1962; M.D., Columbia, 1966*
 Yale Enson. *B.A., Columbia, 1948; M.D., State University of New York (Downstate), 1953*
 Glenda J. Garvey. *B.A., Wellesley, 1964; M.D., Columbia, 1969*
 Elsa-Grace V. Giardina. *B.A., Bryn Mawr, 1961; M.D., New York Medical College, 1965*
 Donald A. Holub. *B.A., Columbia, 1949; M.D., 1952*
 Faramarz Ismail-Beigi. *B.A., Berea, 1962; M.D., Johns Hopkins, 1966; Ph.D., California (San Francisco), 1971*
 Israeli A. Jaffé. *B.S., New York University, 1947; M.D., Columbia, 1950*
 Edgar Leifer. *B.S., College of the City of New York, 1937; M.A., Columbia, 1939; Ph.D., 1941; M.D., 1946*
 Thomas Q. Morris. *B.S., Notre Dame, 1954; M.D., Columbia, 1958*
 Jane H. Morse. *B.A., Smith, 1951; M.D., Columbia, 1955*
 James A. Reiffel. *B.A., Duke, 1965; M.D., Columbia, 1969*
 Robert F. Reiss (also Pathology). *B.A., State University of New York (Syracuse), 1959; M.D., Bologna (Italy), 1965*
 Ethel S. Siris. *B.A., Radcliffe, 1967; M.D., Columbia, 1971*
 Joseph G. Sweeting. *B.S., Holy Cross, 1951; M.D., Columbia, 1956*
 Robert N. Taub. *B.A., Yeshiva, 1957; M.D., Yale, 1961; Ph.D., London, 1969*
 Robert T. Whitlock. *B.A., North Carolina, 1950; M.D., 1957*
 Alan Yagoda. *B.A., Vermont (Burlington), 1956; M.D., 1963*

Clinical Professors

- Ralph S. Blume. *B.A., Amherst, 1960; M.D., Columbia, 1964*
 John R. Edsall. *B.A., Cambridge, 1945; M.B., Ch.B., 1948*
 William T. Friedewald (also Public Health) (Epidemiology). *B.S., Notre Dame, 1959; M.D., Yale, 1963*

Lionel Grossbard. B.A., *Columbia*, 1957; M.D., 1961
 Charles J. Homcy. A.B., *Johns Hopkins*, 1970; M.D., 1973
 Abbie I. Knowlton. B.A., *Bryn Mawr*, 1938; M.D., *Columbia*, 1942
 William P. Lovejoy. B.A., *Yale*, 1956; M.D., *Columbia*, 1962
 David J. McConnell. M.D., *Yale*, 1973
 Jay I. Meltzer. B.A., *Princeton*, 1949; M.D., *Columbia*, 1953
 Hans W. Neuberger. B.A., *Wagner*, 1941; M.D., *Columbia*, 1950
 Robert H. Palmer. B.A., *Oberlin*, 1953; M.D., *Harvard*, 1957
 Allan Schwartz. B.S., *College of the City of New York*, 1967; M.S., *Harvard*, 1968; M.D., *Columbia*, 1974
 Richard J. Stock. B.S., *Yale*, 1944; M.D., *Columbia*, 1947
 John A. Wood. A.B., *Harvard*, 1943; M.D., 1946

Senior Research Scientists

Steven Birken. Ph.D., *St. John's (New York)*, 1972
 Maynard E. Pullman. B.S., *Illinois*, 1948; Ph.D., *Johns Hopkins*, 1953

Associate Professors

Leslie Baer. B.A., *Wisconsin*, 1959; M.D., *Columbia*, 1963
 Ira Jay Goldberg. B.S., *Massachusetts Institute of Technology*, 1971; M.D., *Harvard*, 1975
 Ira A. Tabas (also Anatomy & Cell Biology). B.S., *Tufts*, 1975; M.D., Ph.D., *Washington (St. Louis)*, 1977
 Sharon L. Wardlaw. B.S., *Cornell*, 1970; M.D., 1975

Associate Professor of Occupational Medicine

Paul W. Brandt-Rauf (in Public Health) (Environmental Health Sciences). B.S., *Columbia*, 1970; M.S., 1973; Sc.D., 1974; M.D., 1979; M.P.H., 1980

Associate Professors of Clinical Medicine

Conrad B. Blum. B.S., *Northwestern*, 1969; M.D., 1971
 Herbert S. Chase, Jr. B.A., *Brown*, 1970; M.D., *Mt. Sinai*, 1974
 Randolph P. Cole. B.Ch.E., *Manhattan*, 1968; M.D., *State University of New York (Downstate)*, 1973
 James Coromilas. B.S., *Columbia*, 1969; M.D., *McGill*, 1975
 Jay Franklin Dobkin. B.A., *Columbia*, 1968; B.M.S., *Dartmouth*, 1970; M.D., *Harvard*, 1972
 Dorothy Estes. A.B., *Wheaton (Massachusetts)*, 1946; M.D., *Columbia*, 1950
 Peter H. R. Green. M.B., B.S., *Sydney*, 1970; M.D., 1979
 Robert H. Heissenbuttel. B.A., *Thiel*, 1959; M.D., *Columbia*, 1963
 Wylie C. Hembree, III (also Obstetrics & Gynecology). B.A., *Vanderbilt*, 1960; M.D., *Washington (St. Louis)*, 1964
 Thomas P. Jacobs. B.A., *Amherst*, 1964; M.D., *Johns Hopkins*, 1968
 Kung-Ming Jan. M.B., *National Taiwan*, 1967; Ph.D., *Columbia*, 1971
 J. Gregory Mears. B.S., *Trinity (Connecticut)*, 1969; M.D., *Columbia*, 1973
 George W. Melcher, Jr. B.A., *Colorado*, 1943; M.D., *Columbia*, 1946
 Alfred I. Neugut (also Public Health) (Epidemiology). B.A., *Columbia*, 1972; M.D., Ph.D., 1977
 Juan A. Oliver. *Bachiller, Instituto Menendez (Spain)*, 1961; M.D., *Barcelona*, 1967
 Martin W. Oster. B.A., *Columbia*, 1967; M.D., 1971
 Brian Scully. B.A., *Trinity (Dublin)*, 1969; M.B., 1971
 Elizabeth Shane. B.S., *Dalhousie*, 1969; M.D., *Toronto*, 1975
 Steven J. C. Shea (also Public Health) (Epidemiology). A.B., *Harvard*, 1968; M.D., *Columbia*, 1979

- Susan F. Steinberg (in Pharmacology). B.S., *Massachusetts Institute of Technology*, 1972; M.D., *Harvard*, 1976
 Charles Weissman (also Anesthesiology). B.A., *Yeshiva*, 1972; M.D., *State University of New York (Downstate)*, 1976
 Francis M. Weld. A.B., *Harvard*, 1961; M.D., *Columbia*, 1965

Associate Professor of Clinical Psychiatry

- Jerry Finkel. B.A., *Columbia*, 1957; M.D., 1961

Associate Clinical Professors

- David K. Blood. B.A., *Amherst*, 1962; M.D., *Columbia*, 1966
 John O. Burris. B.S., *Wyoming*, 1952; M.D., *Rochester*, 1956
 L. David Carmichael (also Public Health) (Epidemiology). A.B., *Harvard*, 1969; M.D., *Albert Einstein*, 1976
 Michael H. Cohen. B.A., *Johns Hopkins*, 1961; M.D., 1965
 Oliver T. Fein (also Public Health) (Health Policy and Management). B.A., *Swarthmore*, 1962; M.D., *Case Western Reserve*, 1967
 Kenneth C. Fine. M.D., *Catholic (Louvain, Belgium)*, 1970
 Thomas J. Garrett. M.D., *Queen's (Canada)*, 1971
 Jerry I. Gliklich. B.A., *Columbia*, 1969; M.D., 1975
 George A. Hyman. B.A., *Columbia*, 1942; M.D., 1945
 Rafael A. Lantigua. M.D., *Autonomous (Santo Domingo)*, 1972
 Oscar Lebowitz. A.B., *Dartmouth*, 1968; M.D., *Harvard*, 1972
 Robert M. Lewy (also Public Health) (Environmental Health Sciences). B.A., *Rochester*, 1967; M.D., *College of Medicine and Dentistry of New Jersey*, 1971
 Frank S. Livelli. B.A., *Columbia*, 1972; M.D., *Harvard*, 1976
 Arthur M. Magun. B.A., *Haverford*, 1972; M.D., *Mt. Sinai*, 1977
 Aaron N. Manson. B.A., *Pennsylvania*, 1972; M.D., 1976
 Eric R. Marcus (also Psychiatry). B.A., *Columbia*, 1965; M.D., *Wisconsin*, 1969
 George H. McCormack, Jr. B.S., *Holy Cross*, 1945; M.D., *Columbia*, 1949
 Carmen I. Ortiz-Neu. B.A., *Wellesley*, 1959; M.D., *Columbia*, 1963
 Constance M. Park. B.A., *Radcliffe*, 1964; M.S., *Harvard*, 1967; M.D., *Albert Einstein*, 1974
 Michael F. Parry. B.A., *Yale*, 1966; M.D., *Columbia*, 1970
 Kenneth M. Prager. B.A., *Columbia*, 1964; M.D., *Harvard*, 1968
 Barrie Lynn Raik. B.A., *Harpur*, 1967; M.D., *New York University*, 1977
 Peter L. Salgo (also Anesthesiology). B.A., *Columbia*, 1971; M.D., 1975
 Harvey A. Schneier. B.A., *Columbia*, 1963; M.D., 1967
 Eve E. Slater. B.A., *Vassar*, 1967; M.D., *Columbia*, 1971
 Jeffrey A. Stein. A.B., *Harvard*, 1960; M.D., 1965
 Joseph Tenenbaum. B.A., *Brandeis*, 1968; M.D., *Harvard*, 1974
 Byron M. Thomashow. B.A., *Columbia*, 1970; M.D., 1974
 Cornelius J. Tyson. B.A., *Princeton*, 1939; M.D., *Columbia*, 1943
 Gail S. Williams. B.A., *Wellesley*, 1964; M.D., *Columbia*, 1968
 Chun Keung Yip. B.S., *St. Francis College*, 1972; M.D., *Albert Einstein*, 1976

Associate Clinical Professor of Pathology

- Phyllis Della-Latta (in Medicine). B.S., *St. John's*, 1964; M.S., 1966; Ph.D., *New York University*, 1978

Research Scientist

- Joyce W. Lustbader. B.S., *Rutgers*, 1977; M.S., 1978; M. Phil, 1980; Ph.D., 1982

Assistant Professors

- Myles Akabas (also Physiology & Cellular Biophysics) (in the Center for Molecular Recognition). *B.A., Cornell, 1977; M.D., Albert Einstein, 1982*
- Ned S. Braunstein. *B.S., Northwestern, 1978; M.D., 1980*
- Daniel Burkhoff. *B.S., Cornell, 1979; Ph.D., Johns Hopkins, 1985; M.D., 1987*
- Ivon E. Cayre (also Physiology & Cellular Biophysics). *M.D., Montpellier (France), 1972; D.Sc., Paris (France), 1978*
- James J. Cimino. *B.S., Brown, 1977; M.D., New York Medical College, 1981*
- Nadim E. Cortas. *B.S., American University of Beirut, 1963; M.D., 1967*
- Robin S. Goland. *B.A., Radcliffe, 1976; M.D., Columbia, 1980*
- Steven M. Greenberg. *A.B., Harvard, 1978; M.D., Columbia, 1982*
- Charles S. Hesdorffer. *M.B., Ch.B., Witwatersrand (South Africa), 1978*
- Evelyn Horn. *B.A., Brown, 1976; M.D., Mt. Sinai, 1980*
- Jose Katz (also Radiology). *B.S., Illinois, 1963; M.S., 1964; Ph.D., 1967; M.D., Berlin, 1980*
- Stuart D. Katz. *B.S., Yale, 1979; M.D., State University of New York (Downstate), 1983*
- Seth Lederman. *A.B., Princeton, 1979; M.D., Columbia, 1983*
- Howard R. Levin. *B.A., Johns Hopkins, 1980; M.S., Rutgers, 1982; M.D., Mt. Sinai, 1986*
- Israel Lowy. *B.A., Princeton, 1977; Ph.D., 1982; M.D. Columbia, 1984*
- Stephen A. Morris. *B.S., Pennsylvania 1971; M.D., Ph.D., Albert Einstein, 1978*
- Lynne M. Quittell (also Pediatrics). *B.A., Hampshire, 1975; M.D., Tel Aviv, 1981*
- Paul B. Rothman (also Microbiology). *S.B., Massachusetts Institute of Technology, 1980; M.D., Yale, 1984*
- Christian W. Schindler. *B.A., Pennsylvania, 1978; M.D., Ph.D., New York University, 1985*
- Shonni Silverberg (Irving Assistant Professor). *B.A., Wesleyan, 1976; M.D., Cornell, 1980*
- Cy Aaron Stein (also Pharmacology). *B.A., Brown, 1974; Ph.D., Stanford, 1978; M.D., Albert Einstein, 1982*
- Judah Z. Weinberger (also Pharmacology). *B.A., Columbia 1974; M.A., 1975; M.D., Ph.D., Harvard, 1980*

Assistant Professor of Genetics & Development

- Maggi Allan. *B.A., Stirling (Scotland), 1975; Ph.D., Glasgow (Scotland), 1979*

Assistant Professors of Medical Informatics

- George Hripsak. *B.S., Haverford, 1981; M.D., Columbia, 1985*
- Stephen B. Johnson. *B.A., McGill (Canada), 1982; M.S., New York University, 1984; Ph.D., 1987*

Assistant Professors of Social Medicine

- Sherry I. Brandt-Rauf (in the Center for the Study of Society & Medicine). *M. Phil., Columbia, 1978; J.D., 1981*
- Stephen Hilgartner (in the Center for the Study of Society & Medicine). *B.A., Cornell, 1983; M.A., Pennsylvania, 1984; Ph.D., Cornell, 1987*

Adjunct Assistant Professors

- Paul J. Maddon. *B.A., Columbia, 1981; M.D., Ph.D., 1988*
- Scott J. Mellis. *A.B., Johns Hopkins, 1977; M.D., Ph.D., Washington (St. Louis), 1984*
- Ariel Pablos-Mendez. *M.D., Guadalajara (Mexico), 1985; M.P.H., Columbia, 1992*

Adjunct Assistant Professor of Medical Informatics

- Carol Friedman (in Medicine). *B.S., College of the City of New York, 1962; M.S., New York University, 1986; Ph.D., 1989*

Assistant Professors of Clinical Medicine

- Mark Apfelbaum. B.A., *Yeshiva*, 1977; M.D., *Columbia*, 1981
- Terri F. Apfelbaum. B.A., *Barnard*, 1976; M.D., *Columbia*, 1980
- Rohit R. Arora. B.S., *Institute of Science (Bombay)*, 1972; M.D., *Töpiwalla National (India)*, 1976
- Mark L. Barr (also Surgery). B.S., *City University of New York*, 1979; M.D., *Mount Sinai*, 1981
- Andrew D. Berke. B.S., *Brown*, 1976; M.D., 1979
- David A. Brogno. B.S., *Michigan*, 1981; M.D., 1983
- Gary R. Burke. B.A., *St. Mary's*, 1969; M.D., *Minnesota*, 1973
- Richard S. Cantor. B.A., *Rochester*, 1974; M.D., *Columbia*, 1978
- Rita A. M. Charon. B.A., *Bensalem*, 1970; M.D., *Harvard*, 1978
- David J. Cohen. B.A., *Michigan*, 1970; M.D., *New York University*, 1972
- Jerome A. Cooper. B.A., *New York University*, 1957; M.D., *State University of New York (Downstate)*, 1961
- Steven J. Corwin. B.S., *Northwestern*, 1977; M.D., 1979
- Felicia Cosman. B.A., *Cornell*, 1979; M.D., *State University of New York (Stony Brook)*, 1983
- Robert H. DeBellis. B.S., *Queens (New York)*, 1951; M.D., *Columbia*, 1958
- Marco Di Tullio. M.D., *Milan (Italy)*, 1980
- David L. Diuguid. A.B., *Harvard*, 1975; M.D., *Cornell*, 1979
- Stanley Epstein. B.A., *Brooklyn*, 1954; M.D., *Chicago*, 1958
- Mitchell H. Fishbach. B.S., *State University of New York (Binghamton)*, 1973; M.D., *Albert Einstein*, 1977
- Michael J. Flamm. B.S., *Yale*, 1976; M.D., *Ph.D.*, *Columbia*, 1983
- Gary S. Gabelman. B.S., *College of the City of New York*, 1983; M.D., *Mt. Sinai*, 1985
- Bernard Gitler. B.S., *Massachusetts Institute of Technology*, 1972; M.D., *Cornell*, 1976
- Aasha S. Gopal. A.B., *Barnard*, 1979; S.M., *Massachusetts Institute of Technology*, 1981; M.D., *Columbia*, 1985
- Keith M. Gottesdiener. A.B., *Harvard*, 1977; M.D., *Pennsylvania*, 1982
- Marc D. Grodman. B.A., *Pennsylvania*, 1973; M.D., *Columbia*, 1977; M.P.H., *Harvard*, 1982
- Richard M. Grose. A.B., *Brown*, 1970; M.D., *Albert Einstein*, 1974
- Rebecca T. Hahn. A.B., *Harvard*, 1980; M.D., *Washington*, 1984
- David M. Hodges. B.S., *College of the City of New York*, 1981; M.D., *New York University*, 1984; M.Sc., *Harvard*, 1989
- Shunichi Homma. A.B., *Dartmouth*, 1977; M.D., *Albert Einstein*, 1981
- Ada J. Huang. B.A., *Missouri*, 1978; M.D., 1981
- Oscar H. Irigoyen. B.S., *Military Lyceum*, 1965; M.D., *Buenos Aires*, 1971
- Michael N. Johnson. M.D., *Chicago*, 1982
- Theodore N. Keltz. B.S., *Rensselaer Polytechnic Institute*, 1976; M.D., *Union (Albany, New York)*, 1980
- Brian B. Kiss. B.S., *Utica*, 1980; M.D., *Albert Einstein*, 1984
- Cheryl L. Kunis. M.D., *Albert Einstein*, 1975
- Jonathan D. LáPook. B.S., *Yale*, 1975; M.D., *Columbia*, 1980
- Donald William Landry. B.S., *Lafayette*, 1975; Ph.D., *Harvard*, 1979; M.D., *Columbia*, 1983
- Benjamin H. Lewis. B.A., *California (Berkeley)*, 1973; M.D., *California (San Francisco)*, 1977
- Suzanne M. Lewis. B.S., *State University of New York (Albany)*, 1976; M.D., *Albert Einstein*, 1985
- Susan L. Lucak. B.A., *Barnard*, 1977; M.D., *Albert Einstein*, 1981
- David D. Markowitz. B.S., *Swarthmore*, 1981; M.D., *Columbia*, 1985
- Roger A. Maxfield. B.A., *Brown*, 1974; M.D., 1977
- Robert J. McConnell. B.A., *Hamilton*, 1969; M.D., *Columbia*, 1973
- Carlton C. McGregor. B.S., *Fordham*, 1976; M.D., *Harvard*, 1980
- Anthony D. Mercando. B.S., *Manhattan*, 1976; M.D., *Harvard*, 1980
- Frances J. Meyer. B.A., *Amherst*, 1980; M.D., *State University of New York (Downstate)*, 1985
- Ellen A. Morrison. B.A., *Olivet Nazarene (Illinois)*, 1979; M.D., *Washington*, 1984

- Alan J. Moskowitz. B.A., *Vermont*, 1974; M.D., *New York Medical College*, 1978
 Robin O. Motz. B.A., *Columbia*, 1959; Ph.D., 1965; M.D., 1975
 Michael J. Muschel. B.S., *Yeshiva*, 1977; M.D., *Columbia*, 1981
 Gerald W. Neuberger. B.A., *Princeton*, 1979; M.D., *Columbia*, 1983
 George A. Petrossian. B.A., *Johns Hopkins*, 1979; M.D., *Mt. Sinai*, 1983
 Daniel P. Petrylak. B.A., *Columbia*, 1981; M.D., *Case Western Reserve*, 1985
 Marshall P. Primack. B.A., *Louisville*, 1961; M.D., *Johns Hopkins*, 1965
 Dennis S. Reison. B.S., *Yale*, 1971; M.D., *Stanford*, 1975
 Roxanne A. Rodney. B.A., *Hunter*, 1981; M.D., *Cornell*, 1985
 John L. Roglieri. B.A., B.S., *Lehigh*, 1960; M.D., *Harvard*, 1966
 Mario F. Romagnoli. B.S., *Fordham*, 1972; M.D., *Columbia*, 1976
 Marlon S. Rosenbaum (also Pediatrics). B.A., *Vassar*, 1976; M.D., *New York University*, 1980
 Richard L. Roth. B.S., *Massachusetts Institute of Technology*, 1971; M.D., *Yale*, 1975
 Moshe Rubin. B.A., *Queens*, 1979; M.D., *Yale*, 1983
 David I. Sahar. B.A., *Columbia*, 1975; M.D., 1980
 Lewis P. Schneider. B.A., *Queens*, 1974; M.D., *State University of New York (Downstate)*, 1978
 Stanley J. Schneller. B.A., *New York University*, 1973; M.D., *Harvard*, 1977
 Larry L. Schulman. B.A., *Cornell*, 1974; M.D., *State University of New York (Downstate)*, 1978
 Carol E. Semrad. B.A., *Wisconsin*, 1978; M.D., *Columbia*, 1982
 Alan H. Seplowitz. B.A., *Columbia*, 1968; M.D., 1972
 Janet M. Shapiro. B.S., *Yale*, 1981; M.D., *Columbia*, 1985
 Eric H. Sherman. B.A., *Haverford*, 1980; M.D., *New York University*, 1984; M.S., *Stanford*, 1990
 William H. Sherman. B.S., *Pennsylvania State*, 1967; M.D., *Jefferson*, 1969
 Mark S. Silberman. B.A., *Washington*, 1979; M.D., *Northwestern*, 1984
 Paul F. Simonelli. A.B., *Boston*, 1974; M.S., *Fairleigh Dickinson*, 1977; Ph.D., *Mt. Sinai*, 1984; M.D., 1987
 Marjorie L. Slankard. B.A., *Missouri*, 1967; M.D., 1971
 Leonard Stern. B.A., *City University of New York*, 1972; M.D., *New York Medical College*, 1975
 Mark B. Stoopler. B.S., *Tulane*, 1971; M.D., *Cornell*, 1974
 Anthony M. Valeri. B.S., *Polytechnic Institute of New York*, 1977; M.D., *State University of New York (Brooklyn)*, 1981
 Guy Valiquette. B.A., *Montreal*, 1967; M.D., *McGill*, 1972
 Janet Van Adelsberg. B.A., *Princeton*, 1977; M.D., *Tufts*, 1981
 Hal S. Wasserman. B.A., *Johns Hopkins*, 1978; M.D., *Columbia*, 1982
 Christine C. Weart. M.D., *New York University*, 1979
 Michael D. Weiden. B.S., *Stanford*, 1979; M.S., 1980; M.D., *State University of New York (Stony Brook)*, 1984

Assistant Clinical Professors

- Debrah B. Aronson. B.A., *City University of New York*, 1979; M.D., *Albert Einstein*, 1983
 Susan C. Ball. B.A., *Dartmouth*, 1981; M.D., *Pennsylvania*, 1985; M.P.H., 1990
 Alan R. Baskin. B.A., *New York University*, 1960; M.D., 1964
 Alfred Becker. B.A., *Yeshiva*, 1958; M.D., *Albert Einstein*, 1962
 Karen F. Brudney. B.A., *Yale*, 1973; M.D., *Columbia*, 1980
 Manuel R. Cabrera. B.S., *College of the City of New York*, 1978; M.D., *Boston*, 1982
 Howard Chase. B.A., *Hunter*, 1974; M.D., *Yale*, 1978
 Neville D. Clynes. B.A., *Colby*, 1976; M.D., *State University of New York (Stony Brook)*, 1983
 Alice J. Cohen. B.A., *Bryn Mawr*, 1977; M.D., *Chicago*, 1981
 Audrey Compton. B.S.N., *Simmons (Boston)*, 1975; M.D., *Tufts*, 1982
 Anita C. Darmanian. B.A., *Barnard*, 1977; M.D., *State University of New York (Stony Brook)*, 1981
 Roberta L. Donin. B.S., *Long Island*, 1980; M.D., *Universidad Autonoma de Guadalajara*, 1980
 Juan G. Edreira. M.D., *Havana*, 1951
 Juanita Everetze. M.D., *State University of New York (Buffalo)*, 1979

- Seth D. Feltheimer. B.A., *Johns Hopkins*, 1975; M.S., *Wagner*, 1977; M.D., *Universidad de Navarra (Pamplona, Spain)*, 1981
- Kenneth Friedberg. B.A., *Temple*, 1957; M.D., *Hahnemann*, 1961
- Henry D. Gaines. B.A., *Columbia*, 1970; M.D., *Harvard*, 1974
- William J. Heidenberg. B.S., *Brooklyn*, 1956; M.D., *Pittsburgh*, 1960
- Anna L. Holness. B.S., *College of the City New York*, 1982; M.D., *State University of New York (Stony Brook)*, 1984
- Sherry D. Jackson. B.S., *Wayne State*, 1964; M.A., *Michigan*, 1970; M.D., 1983
- Linda E. Jaffe. B.A., *State University of New York (Albany)*, 1977; M.D., *North Carolina*, 1984
- Eddy Jean-Baptiste. M.D., *College of Medicine (Haiti)*, 1974; Ph.D., *New York University*, 1990
- Minna S. Josef. B.A., *New York University*, 1981; M.D., 1985
- Nancy Feiman Kahn. B.A., *Yale*, 1976; M.D., *Columbia*, 1980
- Terri F. Katz. B.S., *Pennsylvania*, 1979; M.D., *George Washington*, 1986
- Andrew M. Keller. B.A., *Ithaca*, 1975; M.D., *Ohio State*, 1979
- Marjorie Louise King. M.D., *Pennsylvania*, 1982
- Rima G. Kopelman. A.B., *Barnard*, 1971; M.D., *Columbia*, 1977
- Bruce A. Kramer. B.S., *Stevens Institute of Technology (Hoboken, New Jersey)*, 1978; M.D., *College of Medicine and Dentistry of New Jersey*, 1985
- James E. Lacava. B.S., *Ohio*, 1981; M.D., *State University of New York (Syracuse)*, 1987
- Daniel L. Larson. M.D., *Columbia*, 1946
- Arnold L. Lisio. B.S., *Rochester*, 1956; M.D., 1961
- Henry S. Lodge, Jr. B.A., *Pennsylvania*, 1981; M.D., *Columbia*, 1985
- Daniel L. Macken. B.A., *Holy Cross*, 1955; M.D., *Boston*, 1960
- Jacob C. Melamed. M.D., *Munich Medical School (Germany)*, 1976
- Paul C. Mendelowitz. A.B., *Vassar*, 1978; M.A., 1979; M.D., *George Washington*, 1983
- Jacques P. Merab. B.S., *Massachusetts Institute of Technology*, 1976; M.D., *Harvard*, 1980
- Brenda J. Merritt. B.A., *Rochester*, 1975; M.D., *Albert Einstein*, 1979
- Susan R. Morales. A.B., *Harvard*, 1982; M.D., *Columbia*, 1986
- Kathrine G. Nickerson. B.A., *Yale*, 1977; M.D., *California (San Francisco)*, 1981
- Michael Perez. B.A., *College of the City of New York*, 1977; *University of Noreste (Tampico, Mexico)*, 1980
- John E. Postley, Jr. B.A., *Yale*, 1964; M.D., *Columbia*, 1968
- Nicholas Rango. B.S., *St. Louis*, 1966; M.D., *Northwestern*, 1970
- Gerald Ridge. A.B., *Harvard*, 1970; M.D., *California (San Francisco)*, 1979
- Robert B. Roven. B.A., *Columbia*, 1953; M.D., 1957
- Mitchell J. Rubino. B.A., *Bethlehem*, 1974; M.D., *Mount Sinai*, 1979
- Sharon E. Selinger. B.A., *Cornell*, 1977; M.D., 1981
- Jane S. Sillman. B.A., *Radcliffe*, 1964; M.D., *New York University*, 1970
- Judith S. Simmons. B.S., *College of the City of New York*, 1981; M.D., *Mt. Sinai*, 1983
- Arthur I. Snyder. B.A., *Columbia*, 1946; M.D., 1950
- Jack F. Tohme. B.Sc., *American University (Beirut)*, 1970; M.D., 1974
- Peter C. Van Gronigen. B.S., *Long Island*, 1972; M.D., *Howard*, 1976

Associate Research Scientists

- Nai-Xun Chin. M.D., *Shanghai Second Medical College*, 1961
- Lori R. Covey. B.S., *California (Riverside)*, 1977; Ph.D., *Columbia*, 1986
- Mary Ann Gawinowicz. B.A., *Douglass*, 1974; Ph.D., *Columbia*, 1978
- Elaine M. Quinet. B.S., *Rutgers*, 1977; M.S., Ph.D., *George Washington*, 1987
- Ildiko Radichevich. M.A., *Ukrainian Technological*, 1948; Ph.D., *Columbia*, 1958
- Steven L. Roffman. B.A., *Queens (New York)*, 1965; M.S., *New York University*, 1968; Ph.D., 1973
- Robert R. Sciacca. B.S., *Columbia*, 1971; M.S., 1974
- Joan L. Sobel. B.S., *City College of New York*, 1965; M.S., *City University of New York*, 1970
- Stephen K. Sullivan. B.A., *Drury*, 1983; Ph.D., *Kansas*, 1987
- Randle W. Ware. B.S., *Caltech*, 1963; M.S., 1964; Ph.D., *Massachusetts Institute of Technology*, 1971; M.D., *Yale*, 1983

Adjunct Associate Research Scientist

Michele G. Greene. *M.A., State University of New York (Buffalo), 1974; Dr.P.H., Columbia, 1981*

SPECIAL LECTURERS

Harold S. Ginsberg, M.D.
Hamilton Southworth, M.D.
Alfred Steiner, M.D.

SENIOR LECTURER

Nicholas P. Christy, M.D.

LECTURERS

Jacob M. Cohen, M.B.,Ch.B.
Martin M. Grajower, M.D.
William M. Manger, M.D.
Fred S. Schwartz, M.D.
Raanan Smelin, M.D.
Henry M. Thomas III, M.D.
Felix Wimpfheimer, M.D.

ASSOCIATES IN CLINICAL MEDICINE

Rochelle L. Goldsmith, Ed.D., Ph.D.
Elias M. Kaimakliotis, M.D.
Harold Novog, M.D.
Karen P. Oldham, M.D.
Alan L. Saroff, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Gregory L. Almond, M.D.
Jonathan M. Barasch, M.D.
Martin J. Birkhofer, M.D.
Howard Blank, M.D.
Barbara A. Bowe, M.D.
Sonia M. M. Cabrera-Quezada, M.D.
Kunjuraman Chandramohan, M.B.,B.S.
Robert G. Chin, M.D.
Joaquim J. Correia, M.D.
Stephanie N. De Jesus, M.D.
Servando G. De Los Angeles, M.D.
Ramon M. Delmonte, M.D.
Angela M. Dimango, M.D.
Christopher J. Elias, M.D.
David Feit, M.D.
Michael Goldman, M.D.
Robert I. Goodman, M.D.
JoEllen Habas, M.D.
Clark D. Haber, M.D.
Carmen E. Heath, M.D.
Glendson C. Henry, M.D.
Ralph Herz, Jr., M.D.
Peter L. Hofmann, M.D.
Fernando Jara, M.D.
Charles A. Knirsch, M.D.

INSTRUCTORS (continued)

Rebecca J. Kurth, M.D.
Jeffrey A. Leavy, M.D.
Barbara J. Leibowitz, M.D.
Jeremy Luban, M.D.
James F. Marion, M.D.
Edwin Naamon, M.D.
Jennifer M. Plumb, M.D.
Douglas E. Price, M.D.
Milovan T. Rakic, M.D.
John T. Redd, M.D.
Barry Richard Rudin, M.D.
Joseph J. Sachter, M.D.
Michelle A. Sewell, M.D.
Robert S. Siebken, M.D.
Joshua I. Stillman, M.D.
Dulce Urena, M.D.
Robert A. Vaccarino, M.D.
Kenneth J. Vega, M.D.
Diodato Villamena, M.D.
Robert H. Williams, M.D.
Michael J. Yellin, M.D.

ASSISTANTS

Argon Atac, M.D.
Abdul C. K. Azeez, M.B.,B.S.
Theodore C. Docu, M.D.
Carl J. Franzetti, D.O.
Saul Gilson, M.D.
David A. Gomez, M.D.
Harold Grushkin, M.D.
Avraham Henoch, M.D.
Issachar Karten, M.D.
Karel R. Kennedy, M.D.
Eric A. Larsen, M.D.
Chong H. Lee, M.D.
Simon Leiderman, M.D.
Frank J. Maselli, M.D.
Neil J. Miller, M.D.
Luis A. Morales, M.D.
Jose C. Ortiz, M.D.
Socrates Perez, M.D.
Bernard F. Ronald, M.D.
Pradip Sedani, M.B.,B.S.
Dana Shani, M.D.
Norman Spitzer, M.D.
P. A. Sundararajan, M.D.
Silburn Thomas, M.D.
Abraham Weissman, M.D.
Isaac D. Wurzbarger, M.D.

At Mary Imogene Bassett Hospital

Professor of Clinical Medicine

Walter A. Franck. *B.A., Yale, 1960; M.D., Columbia, 1964*

Clinical Professors

John S. Davis. *B.A., Hamilton, 1952; M.D., Harvard, 1956*

William F. Streck. *B.A., Oklahoma State, 1968; M.D., Missouri, 1973*

Associate Professors of Clinical Medicine

Gerald D. Groff. *B.A., Franklin and Marshall, 1983; M.D., Rochester, 1977*

Herbert J. Marx. *B.E.E., Rensselaer Polytechnic Institute, 1954; M.D., Columbia, 1960*

David S. Pratt. *B.A., New Hampshire, 1967; M.D., Tufts, 1971*

Gary Weaver. *B.A., Goshen, 1964; M.D., Kansas, 1968*

Associate Clinical Professors

Peter L. Arquin. *M.D., Pennsylvania State, 1972*

Patrick Dwyer. *B.S., Notre Dame, 1973; M.D., Washington (St. Louis), 1977*

Daniel Gregory. *A.B., Hamilton, 1957; M.D., Virginia, 1962*

Richard J. Horner. *B.A., Dartmouth, 1966; B.M.S., 1967; M.D., Harvard, 1969*

Alan J. Kozak. *B.A., Rochester, 1965; M.D., 1969*

John J. May. *B.S., Notre Dame, 1969; M.D., Case Western Reserve, 1973*

Donald A. Raddatz. *B.A., Holy Cross, 1971; M.D., Minnesota, 1975*

Richard E. Reese. *B.A., Dartmouth, 1965; M.D., Harvard, 1969*

David S. Svahn. *B.S., Massachusetts Institute of Technology, 1960; M.D., Columbia, 1965*

David W. Vaules. *A.B., Dartmouth, 1960; M.S., 1961; M.D., Rochester, 1963*

Research Scientist

Leonard A. Sauer. *B.S., Cornell, 1956; M.D., Rochester, 1961; Ph.D., Rockefeller, 1966*

Assistant Professors of Clinical Medicine

Michael A. Bauer. *B.S., Brown, 1973; M.D., Chicago, 1977*

Lee C. Edmonds. *B.S., Bucknell, 1979; M.D., Jefferson, 1985*

Emery C. Herman. *B.A., Emory, 1949; M.D., Johns Hopkins, 1953*

Peter J. Howard. *B.A., Dartmouth, 1971; M.D., McGill, 1975*

Joseph M. Hughes. *A.B., Hamilton, 1974; M.D., Georgetown, 1978*

Peter J. Jederlinic. *B.S., Manhattan, 1974; M.A., Columbia, 1976; M.D., State University of New York (Buffalo), 1979*

Antoinette Kuzminski. *B.A., Smith, 1967; M.A., Rochester, 1970; M.D., Hawaii, 1977*

Don V. Lewis. *B.A., North Carolina, 1967; M.D., 1971*

Nancy Beth Merrell. *B.S., Wayne State, 1970; Ph.D., 1972; M.D., 1976*

Anne N. Nafziger. *B.A., Goshen, 1979; M.D., Case Western Reserve, 1984*

Jessica Rockwell. *B.S., Boston, 1976; M.D., State University of New York (Buffalo), 1982*

Dennis A. Savoie. *B.A., Providence, 1967; M.D., Vermont, 1971*

Assistant Professor of Clinical Pharmacology

Joseph S. Bertino, Jr. *B.S., State University of New York (Buffalo), 1976; Dr. Pharm., 1978*

Assistant Clinical Professors

- Carol Beechy. B.A., *Goshen*, 1970; M.D., *Kentucky*, 1977
 John W. Brereton. B.S., *U.S. Naval Academy*, 1967; M.D., *Georgetown*, 1976
 James T. Dalton. B.A., *Princeton*, 1975; M.D., *Washington*, 1979
 Mark D. Darrow. B.S., *State University of New York (Albany)*, 1979; M.D., *State University of New York (Stony Brook)*, 1983
 Eric J. Del Giacco. B.S., *Haverford*, 1978; M.D., *Chicago*, 1982
 Donald M. Doynow. B.S., B.E., *State University of New York (Stony Brook)*, 1975; M.D., *South Alabama*, 1985
 Philip J. Dzwonczyk. B.S., *Scranton*, 1975; M.D., *Jefferson*, 1979
 Michael A. Foltzer. B.A., *St. Louis*, 1977; M.D., *Cincinnati*, 1981
 Frank M. Hall. B.A., *Washington & Jefferson*, 1966; M.D., *State University of New York (Buffalo)*, 1970
 Barbara Healey. B.S., *Stonehill*, 1974; M.D., *Massachusetts*, 1981
 Paul E. Heasley. B.S., *Allegheny*, 1979; M.D., *Rochester*, 1983
 Michael J. Hodgman. B.A., *Southern Illinois*, 1978; M.D., *Chicago*, 1984
 August J. Leinhart. B.A., *Cornell*, 1973; M.D., *Albert Einstein*, 1978
 Michael Levenstein. B.A., *State University of New York (Oneonta)*, 1974; M.D., *State University of New York (Stony Brook)*, 1981
 Matthew E. Marvel. B.S., *Colorado*, 1978; M.D., 1982
 R. Edward Miner. B.S., *Alfred*, 1966; M.D., *State University of New York (Syracuse)*, 1970
 Evan S. Morrison. B.S., *Haverford*, 1980; M.D., *Hahnemann*, 1985
 Patricia M. Mower. B.S., *Fitchburg State College*, 1961; M.D., *New York Medical College*, 1982
 Nicholas A. Orfan. B.S., *Northwestern*, 1980; M.D., 1984
 Deanna Palumbo. B.A., *State University of New York (Buffalo)*, 1978; M.D., *New York Medical College*, 1982
 Edward F. P. Philbin. B.A., *Lafayette*, 1979; M.D., *College of Medicine and Dentistry of New Jersey*, 1983
 Donald O. Pollock. A.B., *Hamilton*, 1951; M.D., *Harvard*, 1955
 Lee Robbins. B.S., M.D., *Rensselaer Polytechnic Institute*, *Albany Medical College*, 1976
 Robert N. Santella. B.A., *Dartmouth*, 1979; M.D., *Creighton (Omaha)*, 1983
 Joseph R. Sellers. B.A., *Rochester*, 1978; M.S., *Virginia Commonwealth*, 1980; M.D., *Georgetown*, 1985
 John E. Spoor. M.D., *State University of New York (Buffalo)*, 1966
 William W. Stocker (also Dermatology). A.B., *Harvard*, 1966; M.D., *Case Western Reserve*, 1970
 James J. Stragand. B.S., *Point Park*, 1971; Ph.D., *Pittsburgh*, 1976; M.D., *Southwestern*, 1985
 John C. Tangeman. A.B., *Hamilton*, 1979; M.D., *State University of New York (Syracuse)*, 1983
 Paul C. Tirrell. B.S., M.S., *Villanova*, 1979; Ph.D., *State University of New York (Binghamton)*, 1983; M.D., *Miami*, 1986
 Richard J. Trimble. B.S., *Boston*, 1978; M.D., *Georgetown*, 1982
 James W. Walker, Jr. B.A., *North California*, 1975; M.D., *Georgia*, 1981
 Henry F. Weil. B.S., *Hamilton*, 1980; M.D., *Columbia*, 1986
 Ruth E. Weissberger. B.A., *Brown*, 1975; M.D., *Jefferson*, 1983
 Jill M. Winslow. B.S., *Wilkes*, 1984; M.D., *Hahnemann*, 1984
 Lawrence P. Zyskowski. B.A., *Rutgers*, 1970; Ph.D., *Dartmouth*, 1975; M.D., *Minnesota*, 1977

Associate Research Scientist

- Estelle M. Goodell. B.A., *Marietta College (Ohio)*, 1972; Ph.D., *Medical College of Virginia*, 1979

INSTRUCTOR IN CLINICAL MEDICINE

- Stephen A. Rollo, M.D.

At Harlem Hospital Center

Professor of Clinical Medicine

Charles K. Francis (also Public Health) (Health Policy & Management). *A.B.*, Dartmouth, 1961; *M.D.*, Jefferson, 1965

Clinical Professors

Harold S. Ballard. *B.A.*, California (Los Angeles), 1948; *M.D.*, Meharry, 1952

Charles P. Felton. *B.S.*, Xavier, 1949; *M.D.*, Geneva, 1956

Kenneth Sterling. *A.B.*, Harvard, 1940; *M.D.*, Johns Hopkins, 1943

Charles M. Yergan. *B.S.*, Columbia, 1944; *M.D.*, 1947

Associate Professors of Clinical Medicine

Wafaa M. El-Sadr. *M.D.*, Cairo, 1974

Clayton L. Natta. *B.A.*, McMaster, 1957; *M.D.*, Toronto, 1961

David G. Savage. *B.A.*, Wesleyan, 1970; *M.D.*, Columbia, 1974

Associate Clinical Professors

Alfred R. Ashford. *B.A.*, Rutgers, 1970; *M.D.*, Georgetown, 1975

George C. Branche. *B.A.*, Bowdoin, 1944; *M.D.*, Boston, 1948

Jay Brown. *B.A.*, Rutgers, 1964; *M.D.*, New York University, 1968

John B. Cromie. *M.D.*, Belfast (Northern Ireland), 1949

Jeanne A. Smith. *B.A.*, Sarah Lawrence, 1953; *M.D.*, New York University, 1957

Assistant Professors of Clinical Medicine

William H. Adams. *B.A.*, Ohio State, 1958; *M.D.*, 1962

Nanette Alexander-Thomas. *B.A.*, New York University, 1979; *M.D.*, Boston, 1984

Jen-Tse Cheng. *M.D.*, National (Taiwan), 1961

Shirley Donelson. *B.A.*, Cornell, 1980; *M.D.*, Howard, 1984

Martin H. Ehrlich. *B.S.*, Long Island, 1932; *M.D.*, New York Medical College, 1936

Jeanne L. Hotchkiss. *B.S.*, Southern California, 1961; *M.D.*, Georgetown, 1967

Paul Killian. *B.S.*, Wake Forest, 1957; *M.D.*, Bowman Gray, 1961

Hazeline Nurse. *B.A.*, City University of New York, 1965; *M.D.*, Medical College of Pennsylvania, 1969

Lisa A. Ozick. *B.A.*, Hunter, 1977; *M.D.*, Columbia, 1981

Velvie Ann Pogue. *B.S.*, Southern (Baton Rouge), 1970; *M.D.*, Harvard, 1974

Claude D. Simon. *B.A.*, Princeton, 1978; *M.D.*, Massachusetts, 1984; *Ph.D.*, 1988

Frank D. Singer. *B.A.*, Michigan, 1973; *M.A.*, New York University, 1977; *M.D.*, East Queens City, 1982

Andre L. Smith. *B.A.*, Williams, 1978; *M.D.*, Columbia, 1982

Assistant Clinical Professors

Sapphire M. Ahmed. *B.A.*, New School for Social Research, 1977; *M.D.*, Dartmouth, 1984

Brenda Aiken-Thompson. *B.A.*, Columbia, 1977; *M.D.*, 1981

Brenda A. Bennett. *B.S.*, Seton Hall, 1974; *M.D.*, State University of New York (Buffalo), 1978; *M.P.H.*, Columbia, 1982

Lawrence Brown, Jr. *B.A.*, Brooklyn, 1976; *M.D.*, New York University, 1979; *M.P.H.*, Columbia, 1979

Eddy Cadet. *M.D.*, Libre de Bruxelles (Belgium), 1985

Linnea Capps (also Public Health) (Epidemiology). *B.S.*, Kansas, 1971; *M.D.*, Missouri, 1977; *M.P.H.*, Columbia, 1985

James T. Chien. *M.D., Yale-in-China Medical College, 1943*
 Aubrey G. Clarke. *B.S., Fordham, 1973; M.D., Howard, 1977*
 Marvin C. Cooper. *B.S., Queens (New York), 1960; M.D., St. Louis, 1965*
 Ann Jennings-Purnell. *B.A., Sarah Lawrence, 1975; M.D., New York University, 1979*
 Ellen M. Michaelson. *B.A., Brandeis, 1975; M.D., Massachusetts, 1982*
 Margaret Olibrice. *B.A., Rutgers, 1980; M.D., College of Medicine and Dentistry of New Jersey, 1984*
 Nely S. Recano. *A.A., University of the Philippines, 1959; Dr.M.S., 1960*
 Lynne D. Richardson. *B.S., Massachusetts Institute of Technology, 1976; M.D., Albert Einstein, 1980*
 Earl A. Scott. *B.A., Fordham, 1975; M.D., Columbia, 1978*
 Vel Sivapalan. *M.B., B.S., Colombo (Sri-Lanka), 1980*
 Valerie C. Smart. *B.M., B.S., West Indies (Kingston, Jamaica), 1981*
 Reynold L. Trowers. *B.A., Brown, 1975; M.D., 1979*
 Claudette H. Troyer. *A.B., Princeton, 1974; M.D., Columbia, 1978*
 Eric J. Vanderbush. *B.A., St. Olaf, 1964; M.D., Columbia, 1968*

ASSOCIATES IN CLINICAL MEDICINE

John C. DiJohn, M.D.
 Pearl D. Foster, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Vattathara V. Abraham, M.B., B.S.
 Herman L. Anderson, Jr., M.D.
 Viola Anderson-Griffith, M.D.
 Miguel F. Beltre, M.D.
 Harold A. Brooks, M.D.
 Constanca Bueno-So, M.D.
 Arturo A. Caesar, M.D.
 Wilfred Desir, M.D.
 Fitzroy A. Elliott, M.D.
 Jean G. Ford, M.D.
 Peter Foster, M.D.
 Max P. Francois, M.D.
 Kathi C. Garner, M.D.
 Major Geer, M.D.
 Robert Gibbs, M.D.
 Nilsa S. Gutierrez, M.D.
 Ross T. Hamilton, M.D.

INSTRUCTORS (continued)

Barbara J. Harmon, M.D.
 Brenda R. Harris, M.D.
 Michael Hickson, M.D.
 Matthews K. Hurley, M.D.
 Walter W. Johnson, M.D.
 Furman M. Jones, M.D.
 Joyce P. Kellawon, M.D.
 Richard O. Kennedy, M.D.
 Myung-Sook Kim, M.D.
 Francky Merlin, M.D.
 Luigi M. F. Negri, M.D.
 Eugene A. Paul, M.D.
 Thomas J. Price, M.D.
 Eldon A. Redwood, M.D.
 William J. Schwartz, M.D.
 Antonio T. Sevilla, M.D.
 Deborah A. Simmons, M.D.
 Garry C. Souffrant, M.D.
 Frank N. Tilley, M.D.
 Kim B. Wood, M.D.

At Helen Hayes Hospital

Professor of Clinical Medicine

Robert Lindsay. *M.P.C.B., Glasgow, 1968; Ph.D., 1969*

Assistant Clinical Professor

Andrew D. Beamer. *B.A., Duke, 1977; M.D., Johns Hopkins, 1982*

INSTRUCTORS IN CLINICAL MEDICINE

Marjorie E. Baron, M.D.
 John T. Pellicone, M.D.

At Morristown Memorial Hospital

Professor of Clinical Medicine

Albert S. Klainer. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*

Clinical Professor

John S. Banas, Jr. *B.S., Tufts, 1959; M.D., 1963*

Associate Clinical Professor

Emil Bisaccia (also Dermatology). *B.A., Ohio State, 1974; M.D., Medical College of Ohio, 1979*

Assistant Clinical Professors

Kenneth R. Adler. *B.S., Pittsburgh, 1968; M.D., Albany Medical College, 1973*

Donna J. Astiz. *B.A., Pomona (California), 1973; M.D., Creighton, 1978*

Mark T. Atkins. *B.A., Rochester, 1966; M.D., George Washington, 1969*

Hillel Ben-Asher. *A.B., Chicago, 1952; M.D., 1956*

Joel E. Cannilla. *B.S., Mt. St. Mary's, 1956; M.D., Seton Hall, 1960*

Robert A. Capone. *B.A., New York University, 1974; M.D., Columbia, 1978*

Alan Chanin. *B.A., Franklin & Marshall 1973; M.D., Albert Einstein, 1976*

Kevork Cileli. *M.D., Ankara (Turkey), 1957*

Bernard Davidoff. *B.A., St. John's, 1969; M.D., Columbia, 1973*

Barry Efros. *B.A., George Washington, 1970; M.D., College of Medicine & Dentistry of New Jersey, 1974*

Joel R. L. Ehrenkranz. *M.D., Stanford, 1977*

Joseph F. Fennelly. *B.S., Seton Hall, 1952; M.D., New York Medical College, 1956*

Paul L. Fine. *B.S., Haverford, 1975; M.D., Yale, 1979*

Arthur Fisch. *B.A., Rutgers, 1965; M.D., Boston, 1969*

Stuart Warren Fox. *B.A., Cornell (Ithaca), 1971; M.D., 1975*

Arthur J. Geller. *A.B., Dartmouth, 1954; M.D., Chicago, 1959*

Gary Gerstein. *B.S., St. Joseph's (Pennsylvania), 1969; M.D., Jefferson, 1973*

Stephen Guss. *B.A., Yale, 1964; M.D., Harvard, 1968*

Oscar R. Krusi. *B.S., Union (Schenectady), 1947; M.D., Cornell, 1951*

David S. Lerman. *B.A., New York University, 1964; M.D., Hahnemann, 1968*

Robert V. McCormick. *S.B., Harvard, 1944; M.D., 1946*

Sudhir Mehta. *B.S., Bombay, 1967; M.B., B.S., 1972*

Earl Nielson. *B.S., City College of New York, 1962; M.D., Vermont, 1966*

Mark A. Oliver. *B.S., Vermont, 1967; M.D., Chicago, 1971*

Stephen W. Papish. *B.A., Pennsylvania, 1970; M.D., 1974*

William M. Petkun. *A.B., Harvard, 1978; M.D., New York University, 1982*

William S. Pond. *B.S., Michigan, 1973; M.D., Tufts, 1977*

John E. Rossmann. *M.D., Illinois, 1966*

Joseph J. Ryan. *B.S., Notre Dame, 1965; M.D., State University of New York (Downstate), 1970*

John S. Salaki. *B.S., Mount St. Mary's, 1967; M.D., College of Medicine and Dentistry of New Jersey, 1971*

Michael A. Samach. *A.B., Cornell, 1967; M.D., New York University, 1971*

Craig A. Schiffman. *B.A., Princeton, 1973; M.D., George Washington, 1977*

Felix Schletter. *B.S., Rutgers, 1954; M.D., State University of New York (Albany), 1958*

Nassare-Din Shariati. *M.D., National University of Iran (Tehran), 1972*

Charles A. Shiolen. *M.D., Georgetown, 1977*

Lawrence B. Stein. *B.S., B.A., Minnesota, 1961; M.D., 1965*

James R. Sterret. *B.S., Virginia Military Institute, 1967; M.D., Virginia, 1971*

Jerrold M. Stock. *B.A., Northwestern, 1964; M.D., Chicago, 1968*

Gary Weine. *B.S., Queens, 1972; M.D., Cornell, 1976*
 David Widman. *B.A., New York University, 1971; M.D., Harvard, 1975*
 Barry Zitomer. *B.A., Rutgers, 1959; M.D., Pennsylvania, 1963*

INSTRUCTORS IN CLINICAL MEDICINE

Steven Adler, M.D.	John Penek, M.D.
Jon William Brunswick, M.D.	Celso S. Puno, M.D.
Ronald Ciuffreda, M.D.	Ralph Reichert, M.D.
John J. Delaney, M.D.	Barry Reiter, M.D.
Robert S. Freid, M.D.	Carmen M. Renna, M.D.
Peter Gallerstein, M.D.	Marie Lalor Rozan, M.D.
Lee W. Geller, M.D.	Stephen W. Rozan, M.D.
Steven Mark Gudis, M.D.	Leslie David Schlesinger, M.D.
Arthur N. Hoaglund, M.D.	Stephen Mark Schreiber, M.D.
Ibrahim Housri, M.D.	Dean C. Shore, M.D.
Stephen Krasnica, M.D.	Jay I. Stack, M.D.
David Lewin, M.D.	John G. Valeri, M.D.
Stelio Mangiola, M.D.	Richard Ira Watson, M.D.
James S. Najarian, M.D.	Bennett Weissglass, M.D.
Marilyn Orenstein, M.D.	Paul H. Wichman, M.D.
Michael Orenstein, M.D.	

At Overlook Hospital

Clinical Professor

Michael Bernstein. *M.D., New York Medical College, 1953*

Associate Professor of Clinical Medicine

John J. Gregory. *B.S., Worcester Polytechnic Institute, 1953; M.D., State University of New York (Albany), 1961*

Associate Clinical Professors

Joel L. Duberstein (Family Practice). *B.A., Princeton, 1957; M.D., Columbia, 1961*
 Mary T. Herald. *B.A., New Rochelle, 1965; M.D., College of Medicine and Dentistry of New Jersey, 1969*

Assistant Clinical Professors

Michael B. Alexander. *B.S., Georgetown, 1974; M.D., 1978*
 Michael Albus. *B.A., State University of New York (Buffalo), 1975; M.D., State University of New York (Downstate), 1979*
 Lloyd Howard Alterman. *B.A., State University of New York (Stony Brook), 1973; M.D., Wayne, 1977*
 Kevin Edmund Bell. *M.D., Columbia, 1975*
 Kenneth Brin. *Sc.B., Brown, 1969; M.D., Ph.D., New York University, 1975*
 Fred G. Bromberg. *B.A., Johns Hopkins, 1974; M.D., Rochester, 1978*
 Ronald C. Brown. *B.A., Rutgers, 1970; M.D., Yale, 1974*
 Stuart Burstin. *B.A., Boston, 1969; M.D., Ph.D., New York University, 1975*
 Nereida Diaz-Johnson. *B.A., Cornell, 1978; M.D., Mt. Sinai, 1982*
 Michele B. Elkins. *M.D., Louis Pasteur (France), 1978*
 Stephen J. Fischl. *B.A., Seton Hall, 1963; M.D., College of Medicine and Dentistry of New Jersey, 1967*
 Robert A. Fuhrman. *B.A., Clark, 1962; M.D., Chicago, 1966*

- J. Scott Gillin. B.A., *Cornell*, 1974; M.S., *Columbia*, 1975; M.D., *College of Medicine and Dentistry of New Jersey*, 1979
- Carl S. Goldstein. B.A., *Cornell*, 1973; M.D., *Washington*, 1978
- Peter L. Goodluck. M.B., B.S., *Medical College (Bombay)*, 1958
- Samuel M. Gray. B.S., *Chicago*, 1963; M.D., 1967
- E. Thomas Holland (Family Practice). B.A., *Wesleyan*, 1971; M.D., *Chicago*, 1975
- Thomas V. Inglesby. B.S., *Mt. St. Mary's*, 1959; M.D., *Maryland*, 1963
- James Itzcovitz. B.S., *Pennsylvania State*, 1971; M.A., 1974; M.D., *Pittsburgh*, 1981
- Susan T. Kaye. B.S., *Brown*, 1975; M.D., *New York University*, 1979
- Michael B. Kerner. B.S., *Rutgers*, 1967; M.D., *Bowman Gray*, 1971
- Joel D. Levinson. B.A., *Cornell*, 1959; M.D., *Georgetown*, 1963
- Joseph G. Loeffler. B.A., *Holy Cross*, 1972; M.D., *Albert Einstein*, 1978
- Michael Stephen Lux. B.S., *City University of New York*, 1973; M.D., *New York University*, 1977
- Mark K. Matthews. B.S., *St. John Fisher (Rochester, New York)*, 1975; M.D., *Georgetown*, 1979
- Linda W. McClintic. B.S., *Union*, 1975; M.D., *New York Medical College*, 1980
- Lawrence J. Nastro. B.A., *Brooklyn*, 1961; M.D., *State University of New York (Downstate)*, 1965
- Steven J. Stanzione. B.A., *Georgetown*, 1962; M.D., *College of Medicine and Dentistry of New Jersey*, 1966
- William A. Tansey, III. B.A., *Yale*, 1966; M.D., *Columbia*, 1970
- Lorraine L. Tosiello. B.A., *New York University*, 1975; M.D., *State University of New York (Downstate)*, 1981
- William N. Toth. B.S., *Georgetown*, 1956; M.D., *Hahnemann*, 1960
- William E. Wagner, Jr. B.A., *Princeton*, 1945; M.D., *Columbia*, 1950
- Richard Weinberg. B.S., *Rensselaer Polytechnic Institute*, 1970; M.D., *Union*, 1970
- Donald H. Wernsing (Family Practice). M.D., *Hahnemann*, 1975

Assistant Clinical Professor of Social Medicine

Joseph C. D'Oronzio. A.B., *Syracuse*, 1959; Ph.D., 1965; M.P.H., *Harvard*, 1980

INSTRUCTORS IN CLINICAL MEDICINE

- | | |
|------------------------------|---------------------------|
| Ana L. Baez, M.D. | Kerry S. Lebenger, M.D. |
| Joseph A. Belladonna, M.D. | David I. Lintz, M.D. |
| Donald J. Brock, M.D. | Ines Linzmayer, M.D. |
| H. Oliver Brown, Jr., M.D. | Marvin A. Lipsky, M.D. |
| Kopel Burk, M.D. | Dennis A. Lowenthal, M.D. |
| Joseph A. Clemente, M.D. | Robert P. Margie, M.D. |
| Andrew Coronato, Jr., M.D. | David P. Miller, M.D. |
| Ann Petra D'Adamo, M.D. | Daniel J. Moriarty, M.D. |
| Rosina B. Dixon, M.D. | Sanford M. Reiss, M.D. |
| Charles E. Dooley, Jr., M.D. | Robert L. Rosenbaum, M.D. |
| Joseph T. Faraldo, M.D. | Melvin Rubinstein, M.D. |
| John P. Farry, M.D. | R. Gregory Sachs, M.D. |
| Trina Frankel, M.D. | Robert D. Slama, M.D. |
| Harvey Gerhard, M.D. | Robert R. Springer, M.D. |
| David E. Guyer, M.D. | Elliott M. Stein, M.D. |
| James J. Hakim, M.D. | Michael Suhl, M.D. |
| Eugene R. Kelly, M.D. | Michael J. Tighe, M.D. |
| Thomas H. Kloos, M.D. | Burton Tucker, M.D. |
| A. Ralph Kristeller, M.D. | Michael B. Wax, M.D. |
| | David Allen Worth, M.D. |

At St. Luke's-Roosevelt Hospital Center

Professors

John F. Bertles. *B.S., Yale, 1945; M.D., Harvard, 1952*
 Peter R. Holt. *B.Sc., Tolington, 1949; M.B., B.S., London, 1954*
 Gerald B. Phillips. *B.A., Princeton, 1946; M.D., Harvard, 1948*
 F. Xavier Pi-Sunyer. *B.A., Oberlin, 1955; M.D., Columbia, 1959*
 William Rosner. *B.A., Wisconsin, 1954; M.D., Albert Einstein, 1961*
 Gerard M. Turino (John H. Keating, Sr., Professor). *B.A., Princeton, 1945; M.D., Columbia, 1948*
 Harvey J. Weiss. *A.B., Harvard, 1951; M.D., 1955*

Adjunct Professor

Jules Hirsch. *B.S., Rutgers, 1944; M.D., Texas, 1948*

Professors of Clinical Medicine

A. L. Loomis Bell. *B.S., Wesleyan, 1944; M.D., Harvard, 1947*
 Stanley Cortell. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*
 Edward M. Dwyer. *B.A., Columbia, 1957; M.D., 1961*
 Michael H. Grieco. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1957*
 Harvey G. Kemp. *B.A., Oklahoma, 1955; M.D., Johns Hopkins, 1959*
 Emil Pascarelli. *B.A., Columbia, 1952; M.D., Pavia (Italy), 1958*
 Richard N. Pierson, Jr. *B.A., Princeton, 1951; M.D., Columbia, 1955*
 Miles J. Schwartz. *B.S., Queens (New York), 1947; M.D., New York University, 1961*

Clinical Professors

Richard P. Ames. *B.A., Williams, 1954; M.D., Columbia, 1958*
 Jonas M. Goldstone. *S.B., Harvard, 1951; M.D., 1955*
 Philip H. Henneman. *A.B., Harvard, 1943; M.D., 1946*
 Richard McCray. *B.A., Wesleyan, 1954; B.D., Yale Divinity School, 1957; M.D., Columbia, 1962*

Senior Research Scientist

Beatrice M. Fairchild. *B.A., Hunter, 1942; M.A., Bryn Mawr, 1943; Ph.D., 1948*

Associate Professors

Steven B. Heymsfield. *B.A., Hunter, 1966; M.D., Mt. Sinai, 1971*
 Robert G. Lahita. *B.S., St. Peter's (New Jersey), 1967; M.D., Jefferson, 1973*
 Alan Rozanski. *B.A., Yale, 1971; M.D., Tufts, 1975*

Associate Professors of Clinical Medicine

Judith Axelrod. *B.S., Wellesley, 1953; M.D., Cornell, 1967*
 C. Redington Barrett. *B.A., Yale, 1955; M.D., Columbia, 1959*
 Robert S. Bernstein. *B.A., Columbia, 1961; M.D., Harvard, 1965*
 Norma M. T. W. Braun. *B.A., Pennsylvania, 1959; M.D., Columbia, 1963*
 Airlie A. Cameron. *B.A., Radcliffe, 1957; M.D., McGill, 1961*
 Henry M. Greenberg. *B.A., Pennsylvania, 1961; M.D., Tufts, 1965*
 Judith S. Hochman. *B.A., Brandeis, 1972; M.A., Harvard, 1974; M.D., 1977*

Donald Philip Kotler. *M.D., Albert Einstein, 1973*

Michael Lange. *M.D., Toronto, 1968*

Marianne J. Legato. *B.A., Manhattanville, 1956; M.D., New York University 1962*

Michelle P. Warren (also Obstetrics & Gynecology). *B.A., Mt. Holyoke, 1961; M.D., Cornell, 1965*

Associate Professor of Clinical Physiological Medicine

Jahar Bhattacharya. *M.B., B.S., India Institute of Medicine (New Delhi), 1968; M.S., Ph.D., Oxford, 1973*

Associate Clinical Professors

Albert Attia. *B.A., Cornell, 1955; M.D., 1958*

Harrison G. Bloom. *B.A., Pennsylvania, 1968; M.D., Minnesota, 1975*

Patricia A. Bloom. *B.A., Minnesota, 1971, M.D., 1975*

Carlton Boxhill. *B.A., Columbia, 1964; M.D., 1968*

Norman A. Cagin. *B.S., Rutgers, 1963; M.D., New York Medical College, 1967*

Richard Collens. *B.S., Massachusetts Institute of Technology, 1959; M.D., New York Medical College, 1966*

George Dermksian. *B.A., Columbia, 1948; M.A., Tulane, 1950; M.D., Cornell, 1954*

James B. Gabriel. *B.A., Brown, 1945; M.D., Harvard, 1949*

Oscar B. Garfein. *B.A., Columbia, 1961; M.D., 1965*

Ann Geller. *M.A., Oxford, 1957; M.D., London, 1960*

Gregg Armin Husk. *B.S., Chicago, 1970; M.D., 1975*

Arthur Karanas. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1958*

Ronald Kraft. *B.S., Michigan, 1966; M.D., Cincinnati, 1970*

Arthur J. Lennon. *B.A., Fordham, 1956; M.D., Columbia, 1960*

Jonathan A. Lorch. *B.A., Wisconsin, 1968; M.D., Tulane, 1972*

Mary Elizabeth O'Brien. *B.A., Vassar, 1973; M.D., Harvard, 1977*

Myron C. Patterson. *B.A., Columbia, 1939; M.D., 1943*

Bruce H. Pinkernell. *B.A., Johns Hopkins, 1960; M.D., 1964*

Norton S. Rosensweig. *B.A., Princeton, 1957; M.D., New York University, 1961*

Jean W. Saleh. *B.A., St. Joseph (Beirut), 1957; M.D., Faculté Française de Médecine, 1964*

Lawrence Scharer. *B.A., Columbia, 1954; M.D., 1958*

Seiichi Shimomura. *M.D., Okayama (Japan), 1945*

Gerald Weintraub. *B.A., New York University, 1950; M.D., 1954*

Herman Ziffer. *B.A., Brooklyn, 1949; M.D., Chicago, 1953*

Research Scientist

Kwo-Yih Yeh. *B.S., National University of Taiwan, 1965; Ph.D., Washington (St. Louis), 1975*

Assistant Professors of Clinical Medicine

Antoine G. Abd. *B.S., American University (Beirut), 1978; M.D., 1983*

Jeannine B. Albu. *M.D., Tel Aviv (Israel), 1982*

John R. Anderson. *B.A., Amherst, 1970; M.D., Minnesota, 1983*

Bertha Ann Bauer. *B.A., Smith, 1973; M.D., Columbia, 1977*

Edward W. Colt. *M.D., University of London, 1962*

Michael S. Conjalka. *B.S., Indiana, 1962; M.D., Northwestern, 1973*

Beatrice De La Fuente. *B.S., Miguel Angel Institute (Mexico), 1966; M.D., National Autonomous University (Mexico), 1973*

Robin Jane Dibner. *B.S., Michigan, 1974; M.D., Wayne State, 1979*

Edward Eden. *M.B., B.S., St. Mary's Hospital Medical School, 1975*

C. David Finley. *B.S., Albuquerque, 1972; M.D., State University of New York, (Buffalo) 1977*

Seth L. Gender. B.A., *Wesleyan*, 1979; M.D., *Rush*, 1983
 Patrick H. Griffin. B.A., *Columbia*, 1976; M.D., 1980
 Katherine A. Hawkins. B.A., *Manhattanville*, 1964; M.D., *Columbia*, 1973
 Kenneth J. Herwig. B.A., *State University of New York (Syracuse)*, 1967; M.D., *Pennsylvania State*, 1971
 Gertrude Scott Lefavour. B.A., *Goucher*, 1965; M.D., *Medical College of Pennsylvania*, 1970
 Randy Lyn Levine. B.S., *Cornell*, 1975; M.D., *State University of New York (Buffalo)*, 1979
 George F. McKinley. B.A., *Louisville*, 1976; M.D., *Columbia*, 1980
 Nicholas H. E. Mezitis. B.S., *Athens (Greece)*, 1969; M.D., *Heidelberg (West Germany)*, 1976
 Grace Y. Minamoto. B.S., *State University of New York (Stony Brook)*, 1978; M.D., *Johns Hopkins*, 1982
 Allen Mogtader. B.A., *Columbia*, 1966; M.D., *State University of New York (Downstate)*, 1970
 Marcia Naveh. M.S., *Tulane*, 1972; M.D., *Albert Einstein*, 1977
 Kenneth R. Ong. B.S., *Michigan*, 1972; M.D., *Wayne*, 1976
 Mark V. Sherriid. B.A., *Cornell*, 1969; M.D., *Columbia*, 1972
 Emilia M. Sordillo. A.B., *Harvard*, 1976; M.D., *Cornell*, 1980
 Jonathan S. Steinberg. B.A., *Queens*, 1976; M.D., *Mount Sinai*, 1980
 Milayna Subar. B.A., *Barnard*, 1976; M.D., *State University of New York (Buffalo)*, 1980

Assistant Clinical Professors

Kenneth A. Altman. B.A., *Cornell*, 1950; M.D., *Columbia*, 1954
 Wendy Aronson. B.A., *Vassar*, 1965; M.D., *New York University*, 1968
 William J. Athos. B.A., *Columbia*, 1942; M.D., *State University of New York (Downstate)*, 1956
 Linda S. Attoc. B.S., *College of the City of New York*, 1976; M.D., *State University of New York (Downstate)*, 1981
 John Thomas Barnard. M.D., *Texas*, 1976
 Martin I. Baskin. B.S., *City College of New York*, 1979; M.D., *Mount Sinai*, 1981
 Harvey Benovitz. B.A., *Washington & Jefferson*, 1958; M.D., *Albert Einstein*, 1962
 Robert Bernot. B.A., *Columbia*, 1955; M.D., *State University of New York (Buffalo)*, 1960
 Michael Borecky. B.A., *Wesleyan*, 1965; M.D., *Columbia*, 1969
 Earl B. Brown. B.S., *Emory*, 1938; M.D., 1942
 Richard Gunnar Carlson (also Pediatrics). B.S., *Trinity (Hartford)*, 1966; M.D., *Columbia*, 1970
 David Stewart Carroll. B.A., *Colgate*, 1969; M.D., *Columbia*, 1973
 Daniel S. J. Choy. B.A., *Columbia*, 1944; M.D., 1949
 Paul Chrzanowski. B.A., *Dartmouth*, 1966; B.M.S., 1978; M.D., *Washington*, 1970
 John Cornwall. B.A., *Williams College*, 1970; M.D., *Columbia*, 1974
 Kay Barbara Cynamon. B.A., *Pennsylvania*, 1973; M.D., 1977
 Donald P. Dallas. B.A., *Columbia*, 1950; M.D., 1954
 Samuel J. Daniel. B.A., *Queens (New York)*, 1974; M.D., *Columbia*, 1978
 Luziano Del Guzzo. B.S., *The City College of New York*, 1971; M.D., *New York Medical College*, 1977
 Howard P. Dembin. B.S., *City University of New York*, 1972; M.D., *Mt. Sinai*, 1976
 Robert K. Emy. B.A., *New York University*, 1952; M.D., *Medical College of Virginia*, 1957
 Arthur Englard. B.S., *Brooklyn*, 1971; Ph.D., *Cornell*, 1977; M.D., *Tel Aviv*, 1981
 Jason Faller. B.A., *Pennsylvania*, 1973; M.D., 1977
 Donald R. Fishman. B.A., *Rochester*, 1969; M.D., *Pennsylvania*, 1973
 Etta Rae B. Frankel. B.S., *Washington (St. Louis)*, 1964; M.Ed., *Columbia*, 1971; M.D., 1979
 Martin Jay Frankel. B.A., *Columbia*, 1968; M.D., *State University of New York (Buffalo)*, 1972
 Richard P. Fried. B.A., *Brown*, 1964; M.D., *Columbia*, 1968
 Zane Gaut. B.S., *Birmingham Southern*, 1950; M.D., *Tulane*, 1954
 Richard Geltman. B.A., *Rutgers*, 1967; M.D., *Albert Einstein*, 1971
 Joseph D. Granderson. B.S., *City University of New York*, 1971; M.D., *Albert Einstein*, 1975
 Joseph A. Grossman. B.S., *City College of New York*, 1953; M.D., *State University of New York (Downstate)*, 1957
 Gregory Miner Gustafson. B.A., *Yale*, 1971; M.D., *Columbia*, 1977
 George Haroutiounian. B.A., *Queens*, 1975; M.D., *Rochester*, 1979

- Julian B. Hyman. B.A., *Columbia*, 1945; M.D., *State University of New York (Albany)*, 1947
 Stephen H. Jesmajian. B.A., *New York University*, 1975; M.D., *Albert Einstein*, 1984
 Annetta J. Kimball. B.A., *Mt. Holyoke*, 1964; M.D., *Boston*, 1968
 Mark Henry Kinn. B.A., *Brooklyn*, 1972; M.D., *New York University*, 1977
 Edith Joan Langner. B.A., *Michigan*, 1965; M.D., *New York University*, 1969
 James David Lax. B.A., *Columbia*, 1976; M.D., *New York University*, 1981
 Andrew C. Leifer. B.A., *Brandeis*, 1976; M.D., *Albert Einstein*, 1980
 Sharon Lewin. M.D., *Toronto*, 1975
 Barbara K. Lipton. B.S., *Massachusetts Institute of Technology*, 1977; M.D., *State University of New York (Buffalo)*, 1981
 Robert P. Lombardo. B.S., *Notre Dame*, 1966; M.D., *New York Medical College*, 1970
 Athanasios Mallios. B.A., *Columbia*, 1968; M.D., *State University of New York (Upstate)*, 1973
 Richard A. Marino. A.B., *Columbia*, 1982; M.D., *New York Medical College*, 1986
 Craig E. Metroka. A.B., *Holy Cross*, 1971; M.S., *New York University*, 1975; M.D., *Ph.D.*, 1978
 David K. Merincey. B.A., *Duke*, 1956; M.D., 1960
 Robert Allen Meyers. A.B., *Dartmouth*, 1972; B.M.S., 1974; M.D., *Columbia*, 1976
 Thomas C. Moore III. B.S., *Georgia (Athen)*, 1969; M.D., *Medical College of Georgia (Augusta)*, 1973
 Lawson A. Moyer, III. B.A., *Virginia*, 1968; M.D., 1972
 Debra J. Myers. B.S., *Stanford*, 1973; M.D., *Harvard*, 1977
 Carl H. Nacht. B.S., *State University of New York (Stony Brook)*, 1971; M.D., *Temple*, 1976
 Thomas M. Nall. B.A., *Wesleyan*, 1955; M.D., *Cornell*, 1959
 Paul Martin Nonkin. B.A., *New York University*, 1950; M.D., *New York Medical College*, 1954
 Mary Margaret O'Sullivan. B.A., *Fordham*, 1971; M.D., *Cornell*, 1975
 John J. Olchney. B.S., *Rutgers*, 1965; M.D., *State University of New York (Albany)*, 1969
 Angela A. Palazzo. B.S., *Fairleigh Dickinson*, 1975; M.D., *State University of New York (Downstate)*, 1980
 Barbara Lynn Parks. B.A., *Wisconsin*, 1971; M.D., 1978
 Anthony J. Pepe. B.S., *St John's (New York)*, 1966; M.D., *Columbia*, 1970
 Arnold Morris Phillips. B.S., *Massachusetts Institute of Technology*, 1974; M.D. *Columbia*, 1978
 Peter J. Santogade. M.D., *Wisconsin*, 1978
 Morton Schwimmer. B.A., *Lafayette (Pennsylvania)*, 1948; M.D., *Jefferson*, 1951
 Gregory B. Steinberg. M.B., B.Ch., *Welsh National School of Medicine (Cardiff, Wales)*, 1978
 Kenneth N. Weinstein. B.A., *Vermont*, 1955; M.D., *New York University*, 1959
 William P. Winkler. B.S., *Brown*, 1972; M.S., *Polytechnic Institute of New York*, 1974; M.D., *Columbia*, 1978
 Michelle L. Winter. B.A., *Barnard*, 1971; M.D., *Cornell*, 1975
 Maurice E. Wright. B.S., *Fordham*, 1983; M.D., *Albert Einstein*, 1987
 Franklin H. Zimmerman. B.A., *Brown*, 1976; M.D., 1980

Associate Research Scientists

- Thalia Boussios. B.S., *Columbia*, 1965; M.S., *New York University*, 1977; Ph.D., 1978
 Bonnie Bray. B.S., *Georgia*, 1950; Ph.D., *Columbia*, 1963
 Yoritaro Inada. D.V.M., *School of Veterinary Medicine (Tokyo)*, 1969; Ph.D., 1975
 M. Saeed Khan. M.S., *Brown*, 1964; Ph.D., *Imperial College of Science and Technology (London)*, 1966
 Bruce R. Lages. B.S., *Stevens Institute of Technology*, 1964; M.S., 1967; Ph.D., 1972
 Mohan Muthireval Reddy. B.S., *Agricultural College (India)*, 1963; M.S., *Indian Agricultural Research Institute*, 1966; Ph.D., *Chicago*, 1969
 Mei-Uih Yang. B.Ed., *National University of Taiwan*, 1959; M.S., *Columbia*, 1967; Ph.D., 1976

SPECIAL LECTURERS

- William S. Clark, M.D.
 Henry G. Shaffeld, M.D.

SENIOR LECTURER

- I. Herbert Scheinberg, M.D.

LECTURERS

Martin Finkel, M.D.
David Schwimmer, M.D.

ASSOCIATES IN CLINICAL MEDICINE

Lisa E. Babitz, M.D.
Elizabeth Jane Beautyman, M.D.
Hillard M. Boskey, M.D.
Valerie A. Brackett, M.D.
John Thomas Cappadona, M.D.
Albert Cohen, M.D.
John Cohn, M.D.
Jane-Iris R. Farhi, M.D.
Jeanne Fastook, M.D.
Eugene Freundlich, M.D.
Youssef Ghassibi, M.D.
Andrew M. Goldmann, M.D.
Carolyn E. Goodstein, M.D.
Barry E. Goozner, M.D.
Antoine C. Harovas, M.D.
Karl R. Hoffman, M.D.
Herbert Ivan Jernow, M.D.
Alan Bruce Kadet, M.D.
Woodson Charles Merrell, M.D.
Laura K. Millman, M.D.
Norman C. Peeler, M.D.
Christopher V. Plowe, M.D.
Lonny Reisman, M.D.
Guy A. Renvoize, M.D.
Nicholas Steiner, M.D.
Thomas Tamlyn, M.D.
John K. Wang, M.D.
Walter Gabriel Wasser, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Joseph R. Ades, M.D.
Eric Andreac, M.D.
Elliot Arons, M.D.
Lestrino C. Baquiran, M.D.
David H. Baskin, M.D.

INSTRUCTORS (continued)

Cecil B. Broderick, M.D.
Daniel L. Brook, M.D.
Daniel A. Burton, M.D.
Hugh C. Davidson, M.D.
Pedro De Armas, M.D.
Margaret Dessau, M.D.
William E. Edelheit, M.D.
Alan D. Egelman, M.D.
Jerome Paul Ehrlich, M.D.
Michelle A. Flemmings, M.D.
Dennis Gage, M.D.
Lorraine M. Giordano, M.D.
Aron Goldman, M.D.
Stewart W. Greisman, M.D.
Martin J. Hecht, M.D.
Kelly J. Henning, M.D.
Wade A. Johnson, M.D.
Mitchell Kahn, M.D.
David A. Kamlet, M.D.
Theresa A. Kierenia, M.D.
Carol Tracy Larson, M.D.
Marcel Laufer, M.D.
Robin Lipschitz, M.B., Ch.B.
Dean C. Mitchell, M.D.
Richard Ross Neufeld, M.D.
Lazare Novack, M.D.
Sonia M. Perez-Padilla, M.D.
Martin Saul Pine, M.D.
Michael T. Rendel, M.D.
Ernest C. Richards, M.D.
Gabriel A. Sara, M.D.
Howard N. Schwartz, M.D.
Michael S. Siegal, M.D.
Janice E. Siglin, M.D.
Thomas V. Tupper, M.D.
Steven J. Weiss, M.D.
Michael J. Wiechowski, M.D.
Daniel C. William, M.D.
Paul E. Wiseman, M.D.

Microbiology

Professor and Acting Chairman

Saul J. Silverstein. *B.S., Cornell, 1968; Ph.D., Florida, 1971*

Professors

Kathryn L. Calame (also Biochemistry & Molecular Biophysics). *B.S., Missouri, 1962; M.S., George Washington, 1965; Ph.D., 1975*
Marian B. Carlson (also Genetics & Development) (in the Institute of Cancer Research). *B.A., Radcliffe, 1973; Ph.D., Stanford, 1978*
Dickson D. Despommier (also Public Health) (Tropical Medicine). *B.S., Fairleigh Dickinson, 1962; M.S., Columbia, 1964; Ph.D., Notre Dame, 1967*

Bernard F. Erlanger. *B.S., College of the City of New York, 1943; M.A., New York University, 1948; Ph.D., Columbia, 1951*

David H. Figurski. *B.S., Pittsburgh, 1969; Ph.D., Rochester, 1974*

Stephen Goff (also Eugene Higgins Professor of Biochemistry & Molecular Biophysics). *B.A., Amherst, 1973; Ph.D., Stanford, 1978*

Maxwell E. Gottesman (Charles H. Revson Professor) (also Biochemistry & Molecular Biophysics) (in the Institute for Cancer Research). *B.A., Swarthmore, 1956; M.D., Yale, 1960; Ph.D., 1965*

Benvenuto Pernis (also Medicine). *M.D., Milan, 1947*

Vincent Racaniello. *B.A., Cornell, 1974; Ph.D., Mt. Sinai, 1979*

Senior Research Scientist

Frederick W. Alt (also Biochemistry & Molecular Biophysics). *B.S., Brandeis, 1971; Ph.D., Stanford, 1978*

Associate Professors

Howard A. Shuman. *B.S., Massachusetts, 1974; Ph.D., Harvard, 1979*

Charles Stuart Hamish Young. *B.A., Oxford, 1966; Ph.D., 1969*

Research Scientist

William L. Cleveland. *B.S., Columbia, 1967; Ph.D., Rutgers, 1975*

Assistant Professors

Aaron P. Mitchell (in the Institute for Cancer Research). *B.S., Carnegie-Mellon, 1977; Ph.D., Massachusetts Institute of Technology, 1984*

Paul B. Rothman (also Medicine). *B.S., Massachusetts Institute of Technology, 1980; M.D., Yale, 1984*

David M. Shore. *B.A., Harvard, 1977; Ph.D., Stanford, 1983*

Alan M. Stall. *B.A., Brown, 1974; Ph.D., Chicago, 1983*

Lorraine S. Symington (in the Institute for Cancer Research). *B.S., Glasgow, 1975; Ph.D., Sussex, 1982*

Adjunct Assistant Professors

Vincent Bonagura. *B.A., Columbia, 1971; M.D., 1975*

George Yancopoulos. *B.A., Columbia, 1980; Ph.D., 1986; M.D., 1987*

Associate Research Scientists

Ruth A. Bryan. *B.S., New York University, 1972; Ph.D., Yale, 1981*

Alexander D. Goldfarb. *Diploma, Moscow State, 1969; Ph.D., Weizmann Institute (Israel), 1980*

SPECIAL LECTURERS

Paul Ellner, Ph.D.

Harold Ginsberg, M.D.

Elvin A. Kabat, Ph.D.

Wladyslaw Manski, D.Sc.

SENIOR LECTURER

Russell E. MacDonald, Ph.D.

At Harlem Hospital Center

Clinical Professor of Pathology

Angus Sampath. *D.Sc., Strasbourg, 1966*

At St. Luke's-Roosevelt Hospital Center

Senior Research Scientist

George A. Hashim (also Surgery). *Ph.D., Columbia, 1967*

Neurological Surgery

Byron Stookey Professor and Chairman

Bennett M. Stein. *B.A., Dartmouth, 1952; M.D., McGill, 1955*

At Presbyterian Hospital

Professors of Clinical Neurological Surgery

Peter W. Carmel. *B.A., Chicago, 1956; M.D., New York University, 1960*

Edgar M. Housepian. *B.A., Columbia, 1949; M.D., 1953*

James G. McMurtry, III. *B.A., Rice, 1953; M.D., Baylor, 1957*

Donald Oliver Quest. *B.S., Illinois, 1961; M.D., Columbia, 1970*

Professor of Clinical Psychiatry

Joseph Jaffe. *B.A., Columbia, 1944; M.D., New York University, 1947*

Associate Professor

John Pile-Spellman (also Radiology). *B.M.S., South Dakota, 1976; M.D., Tufts, 1978*

Associate Professor of Clinical Neurological Surgery

Robert A. Solomon. *B.A., Yale, 1976; M.D., Johns Hopkins, 1980*

Associate Professor of Clinical Neurology

Matthew E. Fink. *B.A., Pennsylvania, 1972; M.D., Pittsburgh, 1976*

Assistant Professor

Robert R. Goodman. *B.A., Johns Hopkins, 1976; Ph.D., M.D., 1982*

Assistant Professors of Clinical Neurological Surgery

Ronald Brisman. *B.A., Harvard, 1961; M.D., 1965*

Jeffrey N. Bruce. *B.A., Virginia, 1978; M.D., Rutgers, 1983*

Paul C. McCormick. *B.A., Columbia, 1978; M.D., 1982*

Michael B. Sisti. *B.E., Cooper Union, 1977; M.D., Columbia, 1981*

Assistant Clinical Professor

George L. Becker. *B.A., Johns Hopkins, 1950; M.D., Hahnemann, 1954*

Associate Research Scientist

Gregory J. Duigou. *B.S., Connecticut, 1978; M.S., Kentucky, 1981; Ph.D., 1985*

At Mary Imogene Bassett Hospital

Assistant Clinical Professors

Bruce Stephens Harris. *M.D., Hahnemann, 1968*

Ernest R. Levy. *M.B., Ch.B., Witwatersrand (South Africa), 1965*

At Harlem Hospital Center

Assistant Clinical Professors

Robert N. Holtzman. *B.A., Harvard, 1964; M.D., Columbia, 1969*

James E. O. Hughes. *B.A., Yale, 1958; M.D., Pennsylvania, 1962*

Robert W. Schick. *M.D., New York Medical College, 1952*

INSTRUCTOR IN CLINICAL NEUROLOGICAL SURGERY

George V. Di Giacinto, M.D.

At Overlook Hospital

Clinical Professor

Henry Robert Liss. *M.D., Jefferson Medical College, 1948*

Neurology

Henry & Lucy Moses Professor and Chairman

Lewis P. Rowland. *B.S., Yale, 1945; M.D., 1948*

At Presbyterian Hospital

Professors

Darryl C. DeVivo (Sidney Carter Professor) (also Pediatrics). *B.A., Amherst, 1959; M.D., Virginia, 1964*

Salvatore DiMauro (Lucy G. Moses Professor). *M.D., Padova (Italy), 1963*

Stanley Fahn (H. Houston Merritt Professor). *B.A., California (Berkeley), 1955; M.D., California (San Francisco), 1958*

Claude P. J. Ghez (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *B.S., Geneva, 1960; M.D., Harvard, 1964*

William Allen Hauser (also Public Health) (Epidemiology) (in the Sergievsky Center). *B.A., Case Western Reserve, 1958; M.D., St. Louis, 1962*

Arthur Karlin (Eugene Higgins Professor of Neurology) (also Biochemistry & Molecular Biophysics and Physiology & Cellular Biophysics). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*

Robert F. Lovelace. *B.S., London, 1953; M.R.C.P., 1958*

Richard Mayeux (Gertrude H. Sergievsky Professor of Neurology) (also Psychiatry). *B.S., Oklahoma State, 1968; M.D., 1972*

Jay P. Mohr (Daniel Sciarra Professor). *B.A., Haverford, 1958; M.S., M.D., Virginia, 1963*

Audrey S. Penn. *B.A., Swarthmore, 1956; M.D., Columbia, 1960*

James H. Schwartz (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior and Psychiatry). *B.A., Columbia, 1954; M.D., New York University, 1959; Ph.D., Rockefeller, 1964*

Adjunct Professor

Roger Traub. *B.A., Princeton, 1967; M.D., Pennsylvania, 1972*

Professors of Clinical Neurology

Eduardo Bonilla (also Pathology). *B.A., San Simon (Bolivia), 1957; M.D., Javerina (Bogota), 1964*

Arnold Gold (also Pediatrics). *B.A., Texas, 1947; M.S., Florida, 1949; M.D., Lausanne, 1950*

James F. Hammill. *B.S., LaSalle, 1947; M.D., Pennsylvania, 1948*

Timothy A. Pedley. *B.A., Pomona, 1965; M.D., Yale, 1969*

Daniel Sciarra. *B.A., Harvard, 1940; M.D., 1943*

Professor of Clinical Neuropsychology

Nancy Sabin Wexler (in Psychiatry). *B.A., Radcliffe, 1967; Ph.D., Michigan, 1970*

Professor of Clinical Psychiatric Social Work

Janet B. Williams (in Psychiatry). *B.S., Tufts, 1969; M.S., Columbia, 1974; D.S.W., 1981*

Clinical Professors

Robert E. Barrett. *B.A., William & Mary, 1953; M.D., Medical College of Virginia, 1957*

Robert A. DeNapoli. *M.D., Harvard, 1954*

Linda D. Lewis. *B.S., Bethany, 1961; M.D., West Virginia, 1965*

Joseph L. O'Brien. *M.D., Cornell, 1950*

Associate Professors

Lucien J. Cote (also Rehabilitation Medicine). *B.S., Vermont, 1951; M.D., 1954*

Norman Latov. *B.A., Columbia, 1970; M.D., Ph.D., Pennsylvania, 1975*

Associate Professor of Genetics & Development

Eric A. Schon. *B.S., Columbia, 1968; M.S., Cincinnati, 1973; Ph.D., 1982*

Associate Professors of Clinical Neurology

Gary Abrams. *B.S., State University of New York (Buffalo), 1970; M.D., Pittsburgh, 1974*

Susan B. Bressman. *B.A., Barnard, 1973; M.D., Columbia, 1977*

Robert Burke. *B.A., Dartmouth, 1971; M.D., Cornell, 1975*

Ronald G. Emerson (also Pediatrics). *B.S., Bates, 1971; M.D., New York University, 1975*

Mathew E. Fink (in Neurological Surgery). *B.A., Pennsylvania, 1972; M.D., Pittsburgh, 1976*

Dale Joseph Lange. *B.S., Siena (Loudonville, NY), 1974; M.D., New York Medical College, 1978*

James R. Miller. *B.A., Amherst, 1960; M.D., New York University, 1964*

Associate Professors of Clinical Neuropsychology

Isak Prohovnik (in Psychiatry and Radiology). *M.Sc., Lund (Sweden), 1980; Ph.D., 1981*
 Yaakov Stern (in Psychiatry and Sergievsky Center). *B.A., Touro College, 1975; M.A., City University of New York, 1982; Ph.D., 1983*

Associate Clinical Professors

Michael Fetell. *B.A., Pennsylvania, 1967; M.D., Albert Einstein, 1972*
 Marcelo Olarte. *B.S., Marist, 1962; M.D., Cuyo, 1970*
 David L. Sagman. *A.B., Hamilton, 1955; M.D., Virginia, 1959*
 Stephen G. Shafer (in the Sergievsky Center). *B.A., Harvard, 1966; M.D., Columbia, 1970; M.P.H., 1977*
 Joseph H. Willner. *B.A., Hamilton College, 1966; M.D., New York University, 1970*

Assistant Professors

Mitchell F. Brin. *B.A., Pennsylvania, 1975; M.D., Columbia, 1979*
 Claudia Chiriboga-Klein (also Pediatrics). *M.D., National University of Buenos Aires (Argentina), 1982*
 Paul Greene. *B.S., Massachusetts Institute of Technology, 1967; M.S., Yale, 1975; M.D., Connecticut, 1980*
 Joseph Herbert (also Pathology) (Neuropathology). *B.S., Hebrew (Jerusalem), 1971; M.D., 1975*
 Eric J. Heyer (also Anesthesiology). *B.S., Chicago, 1968; M.D., Ph.D., Albert Einstein, 1975*
 Louise M. Klebanoff. *B.A., Pennsylvania, 1980; M.D., Georgetown, 1984*
 Karen S. Marder (in the Sergievsky Center). *A.B., Cornell, 1979; M.D., 1983*
 Douglas R. Nordli, Jr. (also Pediatrics). *B.A., Haverford, 1980; M.D., Columbia, 1984*
 Torbjørn G. Nygaard. *B.S., Worcester Polytechnic Institute, 1975; M.D., Case Western Reserve, 1980*
 Serge Przedborski. *B.S., St. Exupery (France), 1976; M.D., Libre de Bruxelles (Belgium), 1983*
 Seth Pullman. *B.S., McGill, 1975; M.D., 1979*
 Ralph Sacco (also Public Health) (Epidemiology). *B.S., Cornell, 1979; M.D., Boston, 1983*
 Saud A. Sadiq. *M.B., Ch.B., Nairobi (Kenya), 1979*
 Mark L. Scheuer (Herbert & Florence Irving Assistant Professor). *B.S., Pennsylvania, 1978; M.D., Chicago, 1983*
 Thomas K. Tatemichi. *B.A., Brown, 1974; M.D., Cornell, 1978*
 Rosario R. Trifiletti. *B.S., Seton Hall, 1979; M.D., Ph.D., Johns Hopkins, 1986*
 Thaddeus S. Walczak. *B.S., Northwestern, 1978; M.D., 1982*
 Kirk C. Wilhelmsen. *B.S., California (San Diego), 1978; Ph.D., Wisconsin (Madison), 1984; M.D., 1986*
 David S. Younger. *B.S., Michigan, 1976; M.D., Columbia, 1981*

Assistant Professor of Medical Informatics

Barry A. Allen. *B.A., California, 1971; Ph.D., 1985*

Assistant Professor of Neuropathology

Ruth M. Gubits. *M.S., Albert Einstein, 1978; Ph.D., 1982*

Assistant Professor of Neuropsychology

Mary Sano. *B.S., Amherst, 1974; M.A., New York University, 1980; Ph.D., 1986*

Assistant Professors of Clinical Neurology

Carolyn B. Britton. *B.A., Oberlin, 1965; M.S., M.D., New York University, 1975*
 Ramamohana Kairam (also Pediatrics). *M.B., B.S., Andhra Medical College (India), 1979*
 Laura Lenihan. *B.A., Harvard, 1974; M.D., Cornell, 1978*
 Theodore A. List. *B.A., Kalamazoo, 1963; M.D., Michigan, 1967*
 Stanley R. Resor, Jr. *B.A., Yale, 1967; M.D., Columbia, 1972*
 Glenn M. Seliger. *B.S., Brooklyn, 1979; M.D., State University of New York (Downstate), 1983*

Assistant Clinical Professors

Frank Boschenstein. *B.A., Toronto, 1950; M.D., 1954*
 Ann Camac. *B.A., Cornell, 1978; M.D., Rochester (New York), 1985*
 Eugenia E. Gamboa. *B.A., Philippines, 1961; M.D., 1966*
 Stanley W. Holstein. *B.S., George Washington, 1963; M.D., Georgetown, 1967*
 Charles R. Plank. *B.A., Oklahoma, 1961; M.D., 1965*
 Aaron Rabin. *B.A., Yeshiva, 1967; Ph.D., Rockefeller, 1974; M.D., Albert Einstein, 1976*
 Ariel A. Sherbany. *B.S., State University of New York (Stony Brook), 1972; M.D., New York University 1979; Ph.D., 1982*

Associate Research Scientists

Mercy Mascaren Davidson. *B.S., Madras (India), 1968; M.S., 1970; Ph.D., 1979*
 Marla Hamberger. *B.S., Cornell, 1984; M. Phil., City University of New York, 1991; Ph.D., 1992*
 Ali B. Naini. *B.S., Food & Nutrition Institute of Iran, 1967; M.S., London (England), 1971; Ph.D., Surrey (England), 1978*
 Marcus Richards (also Sergievsky Center). *B.A., Oxford (Pembroke), 1981; Ph.D., London, 1989*
 Sara Shanske. *B.A., California (Los Angeles), 1967; Ph.D., Albert Einstein, 1977*
 Ming Xin Tang (also Sergievsky Center). *M.A., Hunter, 1985; M.Phil., Columbia, 1989; Ph.D., 1990*

LECTURER

Robert E. McMasters, M.D.

ASSOCIATES IN CLINICAL NEUROLOGY

Sidney M. Cohen, M.D.
 Stephen Carl Klass, M.D.
 Heidi Shale, M.D.

INSTRUCTOR IN CLINICAL NEUROLOGY

Damon N. Fellman, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Lewis L. Hamilton. *B.S., Yale, 1960; M.D., Columbia, 1964*

Assistant Clinical Professors

Paul M. Deringer. *B.A., Columbia, 1971; M.D., 1975*
 Mary Ann Whelan. *B.A., Radcliffe, 1961; M.A., Harvard, 1969; Ph.D., 1972; M.D., Dartmouth, 1976*

At Harlem Hospital Center

Professor of Clinical Neurology

John C. M. Brust, Jr. *B.A., Harvard, 1958; M.D., Columbia, 1962*

Associate Professor of Clinical Neurology

Edward B. Heaton. *B.S., Oregon, 1964; M.D., Creighton, 1968*

Associate Clinical Professor

Alfred C. Bannerman. *B.S., Edinburgh, 1963; M.B., Ch.B., 1966*

Assistant Clinical Professor

Rence Malouf. *B.A., Hunter, 1956; M.D., State University of New York (Downstate), 1960*

INSTRUCTOR IN CLINICAL NEUROLOGY

Rafael Borras, M.D.

At Helen Hayes Hospital

Associate Professor of Clinical Neuropharmacology

Robert S. Sloviter. *B.S., Drexel, 1973; Ph.D., Pennsylvania State, 1978*

Assistant Professor of Clinical Neuropharmacology

Helen E. Scharfman. *B.A., Vassar, 1981; Ph.D., Uniformed Services (Bethesda) 1986*

At St. Luke's-Roosevelt Hospital Center

Clinical Professor

Carl W. Braun. *B.A., Harvard, 1958; M.D., Pennsylvania, 1962*

Assistant Clinical Professor

Neil Lombardi (also Pediatrics). *B.A., M.D., Boston, 1967*

ASSOCIATE IN CLINICAL NEUROLOGY

Maureen S. Cafferty, M.D.

Obstetrics and Gynecology

Professor of Clinical Obstetrics & Gynecology and Acting Chairman

Harold E. Fox (also Pediatrics). *M.S., Rochester and Oxford, 1972; M.D., Rochester, 1972*

At Presbyterian Hospital

Professors

- Mieczyslaw Finster (also Anesthesiology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
 Georgiana Jagiello (Virgil G. Damon Professor) (also Genetics & Development) (in the Center for Reproductive Sciences). *B.A., Boston, 1949; M.D., Tufts, 1955*
 L. Stanley James (also Pediatrics). *M.D., Otago (New Zealand), 1948*
 Allan G. Rosenfield (also Public Health) (in the Center for Population & Family Health). *B.A., Harvard, 1955; M.D., Columbia, 1959*

Professor of Anatomy & Cell Biology

- Dominique Toran-Allerand (in the Center for Reproductive Sciences). *B.A., Smith, 1955; M.D., Albany Medical College, 1959*

Professor of Anesthesiology

- Hisayo Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., 1960*

Professor of Pediatrics

- Raymond I. Stark (Perinatology) (in Obstetrics & Gynecology). *B.A., Columbia, 1962; M.D., 1971*

Professor of Pathology

- Ralph M. Richart. *B.A., Johns Hopkins, 1954; M.D., Rochester, 1958*

Professor of Physiology & Cellular Biophysics

- Michel Ferin (in the Center for Reproductive Sciences). *M.D., Louvain, 1964*

Professors of Clinical Obstetrics & Gynecology

- Laxmi Baxi. *M.D., Seth G.S. Medical College (Bombay), 1962*
 Edward T. Bowe. *B.S., Columbia, 1957; M.D., 1961*
 M. Leon Tancer. *B.S., New York University, 1936; M.D., 1940*
 Ilan E. Timor. *M.D., Hebrew (Israel), 1963*

Clinical Professors

- Richard U. Levine. *B.S., Tufts, 1962; M.D., Cornell, 1966*
 Raymond M. McCaffrey. *B.A., Fordham, 1954; M.D., Cornell, 1958*
 Wolfgang Tretter. *M.D., Heidelberg, 1952*
 Ming Yeh. *M.D., National Taiwan, 1964*

Associate Professor of Genetics & Development

- Debra Wolgemuth (in the Center for Reproductive Sciences and Obstetrics & Gynecology). *B.A., Gettysburg, 1969; M.A., Vanderbilt, 1971; M.Phil., Columbia, 1975; Ph.D., 1977*

Associate Professors of Clinical Obstetrics & Gynecology

- Bruce A. Barron. *B.A., Allegheny, 1955; Ph.D., Yale, 1965; M.D., New York University, 1971*
 Wylie C. Hembree, III (also Medicine). *B.A., Vanderbilt, 1960; M.D., Washington (St. Louis), 1964*
 Raphael Jewelewicz. *M.D., Hebrew (Jerusalem), 1960*
 Amalia C. Kelly. *B.A., Bard, 1975; M.D., Tufts, 1979*
 Daniel H. Smith (Oncology) (also Surgery). *M.D., Harvard, 1972*

Associate Professor of Clinical Public Health

- Wendy Chavkin (Population & Family Health) (in Obstetrics & Gynecology). *B.A., Michigan (Ann Arbor), 1973; M.D., State University of New York (Stony Brook), 1978; M.P.H., Columbia, 1980*

Associate Clinical Professors

- Vincent J. Freda. *B.A., Columbia, 1948; M.D., New York University, 1952*
 Ralph J. Hessekil. *B.S., Queens, 1950; M.D., State University of New York (Downstate), 1954*
 Nabil Wafik Husami. *B.S., American University of Beirut, 1968; M.D., 1972*

Research Scientist

- Jye-Siung Fang. *B.S., National University of Taiwan, 1962; Ph.D., Kansas State, 1971*

Assistant Professors

- Stephen A. Brown. *B.A., Chicago, 1980; M.D., 1984*
 Conrad R. Chao. *B.A., Wesleyan, 1978; M.D., 1982*
 Edward C. Ditkoff. *B.S., Emory, 1981; M.D., Chicago, 1985*
 Daniel M. Lasser. *B.A., Pennsylvania, 1981; M.D., Mt. Sinai, 1985*
 David B. Peisner. *B.S., California Institute of Technology, 1974; M.D., Wayne State, 1978*
 Mary L. Reuss (in the Sergievsky Center). *B.S., Pennsylvania, 1973; M.D., Thomas Jefferson, 1978*
 Wendy Warren. *B.A., Wellesley, 1978; M.D., Cornell, 1982*
 Carolyn L. Westhoff. *B.S., Michigan, 1972; M.D., 1977*

Assistant Professors of Biochemistry & Molecular Biophysics

- Richard K. Assoian (in the Center for Reproductive Sciences). *B.A., Johns Hopkins, 1975; Ph.D., Chicago, 1981*
 Richard S. Mann (in the Center for Reproductive Sciences). *B.S., Cornell, 1980; Ph.D., Massachusetts Institute of Technology, 1986*

Assistant Professors of Clinical Obstetrics & Gynecology

- Jody S. Blanco. *B.S., Cornell, 1977; M.D., State University of New York (Upstate), 1981*
 Hilda Yvonne Hutcherson. *B.A., Stanford, 1976; M.D., Harvard, 1980*
 John P. Koulos. *B.S., Northwestern, 1974; M.D., 1978*
 Andrew Loucopoulos. *M.D., Athens, 1970*
 Frances Marks. *B.S., Fairleigh Dickinson, 1978; M.D., Columbia, 1982*
 Cristina Matera-Abouzahr. *B.S., Boston, 1982; M.D., New York University, 1986*
 Ana Monteagudo. *B.S., City University of New York, 1978; M.D., Albert Einstein, 1982*
 Sharon L. Patrick. *B.A., Wooster (Ohio), 1982; M.D., Case Western Reserve, 1986*

Assistant Clinical Professors

- Fred A. Avila. *M.D., Santo Domingo, 1969*
 Valerie Burke. *B.A., Barnard, 1977; M.D., Mt. Sinai, 1981*

- Frederick S. Clare. B.A., *McGill*, 1968; M.B., B.S., *West Indies (Jamaica)*, 1973
 Maritza Cruz. M.D., *Harvard*, 1983
 Eileen F. Demarco. B.A., *Cornell*, 1982; M.D., *New York University*, 1986
 Reinaldo Figueroa. B.A., *Cornell*, 1977; M.D., *Universidad Del Caribe (Puerto Rico)*, 1981
 Frederick A. Gonzalez. B.S., *Boston*, 1972; M.D., *Columbia*, 1976
 Robert A. Hadden. B.A., *Skidmore*, 1980; M.D., *New York Medical College*, 1987
 Coleman Henley, Jr. B.A., *State University of New York (Buffalo)*, 1966; M.D., *Howard*, 1970
 Claudia Holland. B.A., *Harvard*, 1977; M.D., *Mt. Sinai*, 1981
 Sarah H. Kelly. B.A., *Miami*, 1970; M.A., *Indiana*, 1971; M.S., M.D., 1978
 Anita Parnes La Sala. B.A., *Radcliffe*, 1976; M.D., *Columbia*, 1980
 Jodi P. Lerner. B.A., *Lehigh*, 1982; M.D., *Pennsylvania*, 1986
 Bernard L. Lieberman. B.A., *Brooklyn*, 1956; M.D., *State University of New York (Downstate)*, 1961
 Juan S. Lopez. B.S., *Ulises Espaillat College (Dominican Republic)*, 1954; M.D., *Autonomous (Santo Domingo)*, 1962
 Dorcas C. Morgan. B.A., *Brooklyn*, 1981; M.D., *Michigan State*, 1986
 Nooria Rahmanie. M.D., *Kabul (Afghanistan)*, 1971
 Paula A. Randolph. B.S., *Howard (Cambridge)*, 1979; M.D., *Columbia*, 1983
 Kevin B. Reilly. B.A., *Manhattan*, 1966; M.D., *State University of New York (Downstate)*, 1970
 Thomas D. Y. Shin. B.A., *Columbia*, 1984; M.D., *New York University*, 1988
 Barbara A. Stricker. B.A., *State University of New York (Stony Brook)*, 1984; M.D., 1988
 Rafael A. Tejada. B.S., *Santo Domingo*, 1955; M.D., 1962
 Jose F. Torres. B.S., *Lyceum, Jose Joaquin Perez (Santo Domingo)*, 1945; M.D., *Santo Domingo*, 1951
 Christina Rueggsegger Veit. B.S., *Simmons*, 1975; M.D., *Zurich Medical School (Switzerland)*, 1981

Associate Research Scientists

- Rajesh Miranda. B.A., *St. Xavier's (Bombay, India)*, 1982; M.A., *Bombay (India)*, 1984; M.S., *Rochester (New York)*, 1988; Ph.D., 1989
 Henry R. Rey. M.S., *Columbia*, 1971
 Weng Kong Sung. B.S., *Pin Tön Institute*, 1963; Ph.D., *Hokkaido*, 1975
 Axel G. Wadewitz. B.S., *St. John's*, 1980; Ph.D., 1987

SPECIAL LECTURERS

- Seymour Lieberman, Ph.D.
 David B. Moore, M.D.

LECTURERS

- Saul Bilik, M.D.
 Arnold N. Fenton, M.D.
 Umadevi Tantravahi, Ph.D.

INSTRUCTORS IN CLINICAL OBSTETRICS & GYNECOLOGY

- Janis Enzenbacher, M.D.
 Unjeria C. Jackson, M.D.
 Leonardo J. Yunis, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professors

- Mark Elliott Heller. B.A., *Lehigh*, 1969; M.D., *State University of New York (Buffalo)*, 1973
 Balazs Selendy. M.D., *Louvain (Belgium)*, 1964

At Harlem Hospital Center

Professor of Clinical Obstetrics & Gynecology

Sterling B. Williams. *M.S., Northern Illinois, 1966; M.D., Arkansas, 1973*

Associate Professor of Clinical Obstetrics & Gynecology

Hiroko T. Felton. *M.D., Kansai (Japan), 1955*

Associate Clinical Professor

Stephen L. Matscoane. *B.S., Fort Hare (South Africa), 1954; M.D., Witwatersrand (South Africa), 1959*

Assistant Professors of Clinical Obstetrics & Gynecology

Sunthorn Bunyaviroch. *B.S., Chulalongkorn (Thailand), 1960; M.D., Siriraj, 1964*

Nomenida A. Lazaro. *B.S., Santo Tomas (Philippines), 1960; M.D., 1965*

Janet L. Mitchell. *B.A., Mt. Holyoke, 1972; M.D., Howard, 1976; M.P.H., Harvard, 1987*

Esther Suarez. *A.A., Santo Tomas (Philippines), 1955; M.D., 1960*

John T. Tucker. *B.A., Cornell, 1977; M.D., Nebraska, 1985*

Alfred J. Williams. *B.A., Howard, 1960; M.D., Meharry, 1964*

Assistant Clinical Professors

Kok Chung Chang. *M.D., National (Taiwan), 1973*

Hasi Das. *M.B., B.S., Calcutta (India), 1964*

Istvan P. Tornai. *M.D., Medical Sciences University (Hungary), 1955*

Pisan Unchalipongse. *M.D., Chiangma Medical School (Thailand), 1965*

INSTRUCTORS IN CLINICAL OBSTETRICS & GYNECOLOGY

Diane M. Ashton, M.D.

Kwadwo Boakye, M.D.

Sitaram Vithal Chitnis, M.D.

Barbara Lanzara, M.D.

Rajasingham Rahulathanan, M.D.

Spencer I. Ross, M.D.

Violeta Valdez, M.D.

Deborah White, M.D.

At Morristown Memorial Hospital

Associate Professor of Clinical Obstetrics & Gynecology

Abraham Risk. *M.D., Dalhousie, 1957; M.P.H., Johns Hopkins, 1969*

At St. Luke's-Roosevelt Hospital Center

Professor

Robert S. Neuwirth (Dorothy B. Babcock Professor). *B.S., Yale, 1955; M.D., 1958*

Associate Professor of Clinical Obstetrics & Gynecology

Michelle P. Warren (also Medicine). *B.A., Mount Holyoke, 1961; M.D., Cornell, 1965*

Associate Clinical Professor

Haider Hussein Shamsi. *M.B., B.S., King Edward Medical College (Pakistan), 1965*

Assistant Professors

Amos Grunebaum. *M.D., Cologne, 1975*

Maureen Killackey. *B.A., Barnard, 1974; M.D., Cornell, 1978*

Assistant Professor of Clinical Obstetrics & Gynecology

Terusada Horiguchi. *M.D., Keio (Tokyo), 1961*

Assistant Clinical Professors

David B. Crawford. *B.S., North Carolina, 1943; M.D., New York University, 1946*

Ivan J. Jacobson. *B.A., Belgrade (Yugoslavia), 1948; M.D., 1955*

Gyula Nemes. *B.A., Gymnasium Szekesfehervar, 1946; M.D., Budapest, 1954*

Ian G. Van Praagh. *M.D., Toronto, 1955*

Riley W. Waller. *B.S., Le Moyne, 1943; M.D., Howard, 1947*

LECTURERS

Charles H. Debrovner, M.D.

Richard A. Ruskin, M.D.

ASSOCIATES IN CLINICAL OBSTETRICS & GYNECOLOGY

Dov B. S. Goldstein, M.D.

Bernardo Handszer, M.D.

INSTRUCTORS IN CLINICAL OBSTETRICS & GYNECOLOGY

Nargess Ahgharian, M.D.

Howard Balick, M.D.

Ronald D. Blatt, M.D.

Felipe Bozzo, M.D.

Satwant Kaur Dhamoon, M.R.C.O.G.

Susan L. Grant, M.D.

Amtul R. Hussein, M.D.

Joseph Iwanicki, M.D.

Juanita Jenyon, M.D.

Lawrence D. Kramer, M.D.

Olivia Lermant, M.D.

Leon Lewenstein, M.D.

Ellen Manos, M.D.

Karlheinz Moehlen, M.D.

Lillian D. Nash, M.D.

Benu Pascariu, M.D.

Jaana V. Rehnstrom-Blane, M.D.

Ronald J. Reiss, M.D.

Irving Ward Robinson, M.D.

Arnold Roufa, M.D.

Peter S. Sillon, M.D.

Claudia A. Useda, M.D.

Mary E. Wilson, M.D.

Ophthalmology

Edward S. Harkness Professor and Chairman

Anthony Donn. *B.S., Yale, 1947; M.D., Columbia, 1952*

At Presbyterian Hospital

Professor

Peter Gouras. *B.A., Johns Hopkins, 1951; M.D., 1955*

Professor of Ocular Physiology

Laszlo Z. Bito. *B.A., Bard, 1959; Ph.D., Columbia, 1963*

Professor of Ophthalmic Biochemistry

Abraham Spector. *Ph.D., New York University, 1957*

Professor of Physiology & Cellular Biophysics

Jorge Fischbarg. *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*

Professor of Radiation Biology

Basil V. Worgul. *B.S., Miami, 1969; Ph.D., Vermont, 1974*

Adjunct Professor of Ophthalmic Research

Rangaswamy Srinivasan. *B.S., Madras (India), 1949; M.S., 1950; Ph.D., Southern California, 1956*

Professors of Clinical Ophthalmology

Myles M. Behrens. *B.A., Yale, 1958; M.D., Columbia, 1962*

Max Forbes. *B.A., Cornell, 1951; M.D., Chicago, 1957*

Francis A. L'Esperance, Jr. *B.A., Dartmouth, 1952; M.D., Harvard, 1956*

Harold F. Spalter. *B.A., Brown, 1951; M.D., Columbia, 1955*

B. Dobli Srinivasan. *Ph.D., Columbia, 1964; M.D., 1967*

Stephen Trokel. *B.A., Cornell, 1954; M.S., Rochester, 1956; M.D., 1959; Med.Sc.D., Columbia, 1965*

Clinical Professors

Richard W. Darrell. *B.A., Harvard, 1955; M.D., 1959; Med.Sc.D., Columbia, 1965*

John W. Espy. *B.S., Franklin and Marshall, 1953; M.D., Cornell, 1956*

Associate Professor

Hermann D. Schubert (also Pathology). *M.D., Dusseldorf (West Germany), 1974*

Associate Professors of Clinical Ophthalmology

Howard M. Eggers. *B.A., Columbia, 1967; M.D., 1971*

Sally Moore (Orthoptics). *B.S., Delaware, 1952; Orthoptics Certificate, 1965*

Lawrence Yannuzzi. *B.A., Harvard, 1959; M.D., Boston, 1964*

Associate Clinical Professors

Jack M. Dodick. *M.D., Toronto, 1963*

Frank B. Hoefle. *B.A., Dartmouth, 1957; M.D., Harvard, 1961*

Albert Hofeldt. *B.S., Portland State, 1965; M.D., Oregon, 1969*

George M. Howard. *B.A., Dartmouth, 1952; M.D., State University of New York (Albany), 1959*

R. David Sudarsky. *B.S., Yale, 1946; M.D., 1949*

Arnold I. Turtz. *M.D., New York University, 1948*

Research Scientist

James P. Dillon. B.S., *Canisious*, 1964; M.S., *Columbia*, 1973; Ph.D., 1974

Assistant Professors

Raul Oscar Chiesa. B.S., *Instituto Alberto Brause (Uruguay)*, 1971; M.D., *Universidad de las Republicas (Uruguay)*, 1980

Larry Liebovitch. B.S., *City College of New York*, 1972; M.A., *Harvard*, 1973; Ph.D., 1978

Assistant Professor of Ophthalmic Biochemistry

Norman J. Kleinman. B.S., *Rensselaer Polytechnic Institute*, 1979; M.S., *Vanderbilt*, 1982; Ph.D., 1985

Assistant Professors of Clinical Ophthalmology

Lisa G. Barbera. B.S., *Vassar*, 1972; M.D., *Columbia*, 1976

Arthur M. Cotliar. B.A., *Yeshiva*, 1974; M.D., *Albert Einstein*, 1977

Pamela Frances Gallin. A.B., B.S., *Washington*, 1974; M.D., 1978

Cynthia J. Mackay. B.A., *Harvard*, 1964; M.D., *State University of New York (Downstate)*, 1977

Jeffrey G. Odel. B.A., *Hunter*, 1971; M.D., *Rochester*, 1975

R. Theodore Smith. B.A. *Rice (Houston)* 1969; M.S. *Warwick (Coventry, England)*, 1970; Ph.D., 1972; M.D., *Albert Einstein*, 1981

Michael J. Weiss. B.S., *Bar-Ilan (Tel-Aviv, Israel)*, 1972; Ph.D., *Columbia*, 1976; M.D., 1981

Emil Wirostko. B.S., *Fordham*, 1956; M.D., *Cornell*, 1960; Med.Sc.D., *Columbia*, 1967

Assistant Clinical Professors

Yale L. Fisher. B.A., *Cornell*, 1964; M.D., 1967

William James, Jr. B.A., *Princeton*, 1960; M.D., *Columbia*, 1965

Martin E. Lederman. B.A., *Brooklyn*, 1960; M.D., *Albert Einstein*, 1964

Martin L. Leib. B.S., *Yeshiva*, 1969; M.D., *New York Medical College*, 1974

Robert Lopez. B.A., B.S., *California (Irvine)*, 1978; M.D., *Harvard*, 1982

John Carlson Merriam. B.A., *Harvard*, 1971; M.D., 1977

Rainer N. Mittl. M.D., *Munich*, 1964

Hugh M. Moss. B.A., *Harvard*, 1952; M.D., *Pennsylvania*, 1954

Louis D. Pizzarello (also Public Health). B.A., *Colgate*, 1971; M.P.H., *Harvard*, 1974; M.D., *Virginia*, 1975

Associate Research Scientists

Patricia A. Burke. Ph.D., *College of Medicine and Dentistry of New Jersey*, 1983; M.D., 1986

Shonit R. Das. M.S., *Assam (India)*, 1974; Ph.D., 1980

Dean E. Hart. B.S., *New York Institute of Technology*, 1981; M.A., *Hofstra*, 1983; O.D., *State University of New York*, 1987

Jan Koniarek. B.S., *Manhattan College*, 1971; M.E., *New York University*, 1973; M.A., 1975; Ph.D., 1979

Kun-Yan Kuang. M.D., *Gaungzhou (China)*, 1968

Lu-ku Li. B.S., *National University of Taiwan*, 1958; Ph.D., *Princeton*, 1964

Cecily Medvedovsky. M.D., *Tashkent Medical Institute*, 1942; Ph.D., *Institute for Industrial Hygiene and Occupational Diseases*, 1964

Marcelo E. Vazquez. M.D., *La Plata National (Argentina)*, 1984; Ph.D., 1990

Scott S. Weissman. B.S., *State University of New York (Stony Brook)*, 1979; M.D., *Albert Einstein*, 1983

Michael Yamamoto. M.D., *Chiba (Japan)*, 1983

SPECIAL LECTURERS

Frank D. Carroll, M.D.
Ira S. Jones, M.D.
Charles J. Koester, Ph.D.
Wladyslaw Manski, D.S.
George R. Merriam, M.D.

LECTURER

Gerald Weinstein, M.D.

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Barry G. Chaiken, M.D.
Paul Frank, M.D.
B. David Gorman, M.D.
John S. Kim, M.D.
Peter Michalos, M.D.
Marc G. Odrich, M.D.
Gloria Paoli, M.D.

ASSOCIATES IN CLINICAL OPHTHALMOLOGY

James D. Auran, M.D.
Richard D. Banyard, M.D.
Daniel S. Casper, M.D., Ph.D.
Stephen Doro, M.D.
George J. Florakis, M.D.
Donald H. Green, M.D.
Michael Kazim, M.D.
Lawrence G. Pape, M.D.
Jaime Santamaria, III, M.D.
Dean E. Stetz, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

Charles B. Deichman. *B.A., Massachusetts, 1963; M.D., State University of New York (Albany), 1969*

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Paul M. Beer, M.D.
Irene H. Ludwig, M.D.

At Harlem Hospital Center

Professor of Clinical Ophthalmology

R. Linsy Farris. *M.D., Duke, 1961*

Assistant Professor of Clinical Ophthalmology

Herman C. Jordan. *B.A., Colgate, 1954; M.D., Howard, 1964*

Assistant Clinical Professors

Rajendra K. Bansal. *M.B., B.S., Delhi (India), 1967; M.S., 1967*
Ram P. Tiwari. *B.S., Agn (India), 1961; M.B., B.S., Delhi (India), 1966; M.S., 1970*

ASSOCIATES IN CLINICAL OPHTHALMOLOGY

Milton Delorme, M.D.
Antonio M. Gonzales, M.D.
John P. Mitchell, M.D.
Cambiz T. Moazed, M.D.

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Frantz Lerebours, M.D.
Christopher A. Rice, M.D.

At St. Luke's-Roosevelt Hospital Center

Associate Clinical Professor

James C. Newton. *B.S., Fordham, 1949; Ph.D., 1953; M.D., Jefferson, 1957*

Assistant Clinical Professor

Chin Wing Chu. *B.A., Yale, 1968; M.D., State University of New York (Downstate), 1972*

ASSOCIATES IN CLINICAL OPHTHALMOLOGY

Alan Charles Brown, M.D.

Charles Merker, M.D.

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Louis V. Angioletti, Jr., M.D.

Ulises Arango, M.D.

Robert C. Del la Rocca, M.D.

Dennis Freilich, M.D.

Bernard J. Fowler, M.D.

Bruce M. Hyman, M.D.

Richard D. Lester, M.D.

Kenneth E. Merhige, M.D.

Robert P. Newhouse, M.D.

Satya D. Paul, M.D.

Rochelle L. Peck, M.D.

Steven M. Plotyia, M.D.

Chalermpong Sarakhun, M.D.

Celeste Schmucker-Karpow, M.D.

John R. Stabile, M.D.

Richard T. Sturm, M.D.

George Traykovski, M.D.

Howard K. Weisberg, M.D.

Orthopedic Surgery

Frank E. Stinchfield Professor and Chairman

Harold M. Dick. *B.A., Princeton, 1956; M.D., New York University, 1960*

At Presbyterian Hospital

Professors of Mechanical Engineering and Orthopedic Bioengineering

Michael W. Lai. *B.S., National Taiwan University, 1953; M.S., Michigan, 1959; Ph.D., 1962*

Van C. Mow. *B.A.E., Rensselaer Polytechnic Institute, 1962; Ph.D., 1966*

Professors of Clinical Orthopedic Surgery

Nas Ser Eftekhari. *M.D., Teheran, 1960*

S. Ashby Grantham. *B.A., Washington (St. Louis), 1952; M.D., 1955*

Clinical Professor

Norman A. Hill. *A.B., Princeton, 1949; M.D., Columbia, 1953*

Associate Professor of Orthopedic Biochemistry

Anthony Ratcliffe. B.S., *Birmingham (England)*, 1977; Ph.D., 1980

Associate Professors of Clinical Orthopedic Surgery

Louis U. Bigliani. B.A., *Holy Cross*, 1968; M.D., *Loyola*, 1972

Hugo A. Keim. B.S., *St. Mary's (Minnesota)*, 1956; M.D., *Loyola*, 1960; M.S., *Northwestern*, 1966

Christopher B. Michelsen. B.A., *Bowdoin*, 1961; M.D., *Columbia*, 1969

David Price Royce, Jr. B.A., *Oklahoma*, 1971; M.D., *Columbia*, 1975

Associate Clinical Professors

David L. Andrews. B.A., *Williams*, 1952; M.D., *Columbia*, 1956

Jean-Pierre C. Farcy. M.D., *Aix-Marseille*, 1972

Stephen J. McIlveen. B.S., *Fairleigh Dickinson*, 1969; M.D., *New York University*, 1973

Assistant Professors

Gail S. Chorney. B.A., *Smith*, 1974; M.D., *Boston*, 1978

Evan L. Flatow. B.A., *Princeton*, 1977; M.D., *Columbia*, 1981

Ronald P. Grelsamer. B.S., B.A., *Brown*, 1975; M.D., *Columbia*, 1979

Ohannes A. Nercessian. B.S., *Lehman*, 1977; M.D., *Columbia*, 1981

Roger G. Pollock. B.A., *Yale*, 1981; M.D., *Columbia*, 1985

Melvin P. Rosenwasser. B.A., *Johns Hopkins*, 1972; M.D., *Columbia*, 1976

Robert J. Strauch. B.A., *Columbia*, 1982; M.D., 1986

Adjunct Assistant Professor

Stuart J. Hershon. A.B., *Harvard*, 1959; M.D., *New York Medical College*, 1963

Assistant Professors of Clinical Orthopedic Surgery

John W. Carmody. B.A., *Fordham*, 1972; M.D., *New York Medical College*, 1976

Armen C. Haig. B.A., *Columbia*, 1952; M.D., *Yale*, 1965

Howard A. Kiernan, Jr. B.S., *Holy Cross*, 1962; M.D., *New York University*, 1966

Bruce L. Sprague. B.A., *Princeton*, 1960; M.D., *Pennsylvania*, 1964

Assistant Clinical Professors

Peter Carbonara. B.A., *Columbia*, 1953; M.D., *Boston*, 1957

Robert N. Dunn. B.A., *Harvard*, 1965; M.D., *Columbia*, 1969

Allan E. Inglis, Jr. B.A., *Hobart*, 1978; M.D., *Cornell*, 1983

Merle H. Katzman. B.S., *Trinity (Connecticut)*, 1950; M.D., *Jefferson*, 1954

Harvey Orlin. M.D., *State University of New York (Downstate)*, 1961

Walter J. Pedowitz. B.A., *Lafayette*, 1966; M.D., *State University of New York (Downstate)*, 1971

Robert M. Reiss. B.A., *Columbia*, 1951; M.D., 1959

Thomas Rodda. B.A., *King's College (Pennsylvania)*, 1957; M.D., *Loyola*, 1961

Joseph E. Salvatore. M.D., *Hahnemann*, 1955

Mark Schottenfeld. B.A., *Hobart*, 1963; M.D., *Chicago*, 1967

E. Baldwin Self, Jr. B.A., *Yale*, 1932; M.D., *Columbia*, 1936

Martin L. Sorger. B.A., *Hamilton*, 1956; M.D., *Columbia*, 1960

Ronald Tietjen. B.S., *Ursinus (Pennsylvania)*, 1968; M.D., *New York University*, 1972

Luther F. Warren. B.A., *Harvard*, 1961; M.D., *Columbia*, 1968

Joel D. Weinstein. B.A., *Princeton*, 1958; M.D., *Columbia*, 1962

Associate Research Scientists

Robert James Foster. *B.A., Cooper Union, 1973; M.E., Columbia, 1974; Med.Sc.D., 1982*
 Robert J. Pawluk. *B.S., Columbia, 1974; M.B.A., 1977*

SPECIAL LECTURERS

Austin D. Johnston, M.D.
 D. Keith McElroy, M.D.
 Charles S. Neer II, M.D.

LECTURER

Allan M. Levy, M.D.

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Mark P. Altman, M.D.
 Douglas Avella, M.D.
 Phillip A. Bauman, M.D.
 Steven Berkowitz, M.D.
 Michael J. Bronson, M.D.
 Robert M. Esposito, M.D.
 Stuart J. Fischer, M.D.
 Richard E. Fleming, Jr., M.D.
 Craig Richard Foster, M.D.
 James S. Kort, M.D.
 Lawrence A. Lefkowitz, M.D.
 John J. Leppard III, M.D.
 Marc I. Malberg, M.D.
 Seth R. Miller, M.D.
 Thomas A. Rago, M.D.
 Wendell O. Scott, M.D.
 Hervey S. Sicherman, M.D.
 William T. Stillwell, M.D.
 Francis F. Tarsney, M.D.
 Marvin Winell, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

Franklin Lynch, Jr. *B.A., Dartmouth, 1972; M.D., 1975*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Charles A. Mick, M.D.
 Jonathan Richman, M.D.
 Michael Ries, M.D.

At Harlem Hospital Center

Professor of Clinical Orthopedic Surgery

Marvin L. Shelton. *B.S., Howard, 1951; M.D., 1956*

Assistant Professors of Clinical Orthopedic Surgery

Reginald E. Manning. *B.A., Columbia, 1974; M.D., 1978*
 Shearwood J. McClelland. *B.A., Princeton, 1969; M.D., Columbia, 1974*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

William L. King, Jr., M.D.

Caleb F. Medley, M.D.

At Helen Hayes Hospital

Professor of Clinical Orthopedic Surgery

George Van B. Cochran. *B.A., Dartmouth, 1953; M.D., Columbia, 1956; Med.Sc.D., 1957*

Assistant Professor

Mark Weidenbaum. *B.S., Connecticut, 1977; M.D., Columbia, 1981*

Assistant Professor of Clinical Orthopedic Surgery

Scott V. Haig. *B.A., Yale, 1980; M.D., 1984*

Associate Research Scientists

Martin W. Ferguson-Pell. *B.S., Exeter (United Kingdom), 1973; Ph.D., Strathclyde (Glasgow), 1977*

Murali P. Kadaba. *M.S., Cincinnati, 1972; Ph.D., Kentucky, 1978*

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY

Ralph N. Purcell, M.D.

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Orthopedic Surgery

Joseph W. Fielding. *M.D., Toronto, 1946*

Clinical Professor

Robert E. Zickel. *B.A., Cornell, 1952; M.D., 1958*

Assistant Clinical Professors

Vincent J. Fietti, Jr. *B.A., Boston, 1968; M.D., 1972*

William G. Hamilton. *B.S., Princeton, 1954; M.D., Columbia, 1964*

Frederic E. Helbig. *B.A., Brown, 1964; M.D., Boston, 1969*

Paul Hobeika. *B.S., Christian Brothers (Lebanon), 1968; M.D., French Faculty, 1975*

Tarek Hisham Mardam-Bey. *M.D., American University of Beirut, 1972*

Ronald M. Match. *B.A., Hofstra, 1953; M.D., Jefferson, 1957*

James C. Parkes, II. *B.A., Dartmouth, 1957; M.D., Harvard, 1961*

Andrew H. Patterson. *B.A., North Carolina, 1954; M.D., Columbia, 1958*

Francesca Thompson. *B.A., Smith College, 1965; M.S.W., Fordham, 1968; M.D., Cornell, 1977*

George L. Unis. *B.A., New York University, 1960; M.D., College of Medicine and Dentistry of New Jersey, 1975*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Richard J. Cea, M.D.

Sanford A. Ratzan, M.D.

Otolaryngology

Professor of Clinical Otolaryngology and Acting Chairman

Andrew Blitzer (also Dental & Oral Surgery). *B.A., Adelphi, 1966; D.D.S., Columbia, 1970; M.D., Mt. Sinai, 1973*

At Presbyterian Hospital

Professor of Auditory Biophysics

Shyyam K. Khanna. *B.S., Lucknow (India), 1951; D.R.E., St. Xaviers (Bombay), 1951*

Professor of Clinical Otolaryngology

Cheng Chun Huang. *B.S., Taiwan, 1963; M.S., Vanderbilt, 1966; Ph.D., Iowa, 1970*

Clinical Professors

Lawrence Savetsky. *B.A., New York University, 1951; M.D., State University of New York (Downstate), 1955*

Malcolm H. Schvey. *B.A., Lehigh, 1947; M.A., Columbia, 1950; M.D., Amsterdam, 1956*

Howard W. Smith. *D.M.D., Tufts, 1945; Ph.D., Yale, 1948; M.D., 1953*

Associate Professor of Clinical Otolaryngology

Jack Joseph Wazen. *B.S., American University of Beirut, 1974; M.D., 1978*

Associate Professor of Clinical Dental & Oral Surgery

Steven M. Roser (in Surgery). *B.A., Middlebury, 1964; D.M.D., Harvard, 1968; M.D., 1972*

Associate Clinical Professor

Raymond B. Strauss. *B.A., Washington (St. Louis), 1950; Ph.D., Florida, 1956; M.D., Case Western Reserve, 1968*

Associate Clinical Professor of Dental & Oral Surgery

John D. Piro (Prosthetics). *B.A., Fordham, 1943; D.D.S., Columbia, 1946*

Assistant Professors

Jonathan E. Aviv. *B.A., Columbia, 1981; M.D., 1985*

Joseph Haddad, Jr. *B.A., Wesleyan, 1978; M.D., New York University, 1983*

Steven R. Isaacson (also Radiation Oncology). *B.S., Pennsylvania State, 1969; M.D., Jefferson, 1973*

Monte S. Keen. *B.A., State University of New York (Binghamton), 1976; M.D., California (San Francisco), 1981*

Hector P. Rodriguez. *M.D., Autonomous (Guadalajara), 1980*

Assistant Professors of Clinical Otolaryngology

Lee David Eisenberg. *B.S., St. John's (New York), 1967; M.D., State University of New York (Downstate), 1971*

Daniel B. Kuriloff. *B.A., Washington, 1978; M.D., Mt. Sinai, 1982*

Assistant Clinical Professors

Anthony Paul Caruso. *B.S., Dickinson, 1971; M.D., Jefferson, 1975*

Vincent G. Caruso. *B.S., Dickinson, 1963; M.D., Jefferson, 1967*

Hyun T. Cho. *M.D., Korea, 1964*

Daniel J. Pender. *B.S., Worcester Polytechnic Institute, 1963; M.S., Yale, 1964; M.D., Pennsylvania, 1969*

Associate Research Scientists

Lou Brundin. *B.S., Kevingegard (Sweden), 1981; M.D., Karolinska Institute (Stockholm, Sweden), 1987*

Mats L. Ulfendahl. *B.M., Karolinska Institute, 1983; Ph.D., 1989*

Adjunct Associate Research Scientists

Jonathan B. Allen. *Ph.D., Pennsylvania, 1970*

Barbara Canlon. *B.S., Brooklyn, 1980; M.S., Michigan, 1984; Ph.D., Karolinska Institute, 1988*

SPECIAL LECTURER

Robin M. Rankow, M.D.

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Robert M. Dewell, M.D.

Robert D. Huang, M.D.

Carol L. Mackersie, M.A.

Arlene H. Markowitz, M.D.

Robert L. Russo, M.D.

Diego Saporta, M.D.

Jayde Steckowych, M.D.

At Mary Imogene Bassett Hospital

INSTRUCTOR IN CLINICAL OTOLARYNGOLOGY

Paul D. Nosal, M.D.

At Harlem Hospital Center

Associate Clinical Professor

Errol A. Thompson. *M.B., University College (Dublin), 1936*

Assistant Clinical Professor

Ransford C. Newman. *M.B., B.S., London, 1960*

INSTRUCTOR IN CLINICAL OTOLARYNGOLOGY

Ellsworth Frye, M.D.

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Otolaryngology

Yosef P. Krespi. *M.D., Technion-Faculty of Medicine (Israel), 1973*

Assistant Professor of Clinical Otolaryngology

Steven J. Pearlman. *B.A., Brandeis, 1978; M.D., Mt. Sinai, 1982*

Assistant Clinical Professors

Tay Bong Lee. *M.D., Seoul National University, 1962*

Walter H. Stingle. *B.A., Columbia, 1965; M.D., 1969*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Marta Aramburu, *M.D.*

Neville W. Carmical, *M.D.*

James F. Grillo, *M.D.*

Edward M. Lane, *M.D.*

L. Nicole Moulin, *M.D.*

Geoffrey J. Pollack, *M.D.*

Pathology

Francis E. Delafield Professor and Chairman

Michael M. Shelanski (in the Center for Neurobiology & Behavior). *M.D., Chicago, 1966; Ph.D., 1967*

At Presbyterian Hospital

Professors

Richard Axel (Eugene Higgins Professor) (also Biochemistry & Molecular Biophysics) (in the Institute for Cancer Research). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*

Riccardo Dalla-Favera (Percy and Joanne Uris Professor). *M.D., Milan (Italy), 1976*

James E. Goldman (in Psychiatry). *B.A., Amherst, 1968; M.D., Ph.D., New York University, 1976*

Lloyd A. Greene (in the Center for Neurobiology & Behavior). *B.S., Chicago, 1965; Ph.D., California (San Diego), 1970*

Mary E. Hatten (in the Center for Neurobiology & Behavior). *B.A., Hollins, 1971; Ph.D., Princeton, 1975*

Daniel M. Knowles. *B.A., Bridgeport, 1969; M.D., Chicago, 1973*

Ronald Liem (also Anatomy & Cell Biology) (in the Center for Neurobiology & Behavior). *B.A., Amherst, 1968; M.S., Cornell, 1969; Ph.D., 1973*

Carol A. Mason (also Anatomy & Cell Biology) (in the Center for Neurobiology & Behavior). *B.S., Chatham, 1967; M.A., California (Berkeley), 1969; Ph.D., 1973*

Frederick R. Maxfield (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *B.S., Union, 1971; Ph.D., Cornell, 1977*

Ralph M. Richart (in Obstetrics & Gynecology). *B.A., Johns Hopkins, 1954; M.D., Rochester, 1958*

Virginia M. Tennyson (also Anatomy & Cell Biology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; M.D., Columbia, 1960*

Professor of Dental & Oral Surgery

David Zegarelli (Stomatology) (in Pathology). *B.A., Columbia, 1965; D.D.S., 1969*

Professor of Surgical Pathology

Luciano Ozello. *M.D., Turin, 1951*

Adjunct Professors

S. Raymond Gambino. *B.S., Antioch, 1948; M.D., Rochester, 1952*

Robert V. Hutter. *B.A., State University of New York (Syracuse), 1950; M.D., 1954; M.A., Yale, 1958*

Harry L. Ioachim. *M.D., Bucharest (Rumania), 1949*

Sidney Pestka. *B.A., Princeton, 1957; M.D., Pennsylvania, 1961*

Professors of Clinical Pathology

Giuseppe A. Andres. *M.D., Pisa (Italy), 1949; Ph.D., 1965*

Eduardo Bonilla (also Neurology). *B.A., San Simon (Bolivia), 1957; M.D., Javerina (Bogota), 1964*

Paul B. Fisher (in Urology). *B.A., Hunter, 1968; M.A., Lehman, 1971; Ph.D., Rutgers, 1974*

Jay Lefkowitz. *B.A., Clark, 1972; M.D., Columbia, 1976*

Armand F. Miranda. *B.S., Columbia, 1969; M.D., 1973*

Robert F. Reiss (also Medicine). *B.A., State University of New York (Syracuse), 1959; M.D., Bologna (Italy), 1965*

Nicole Suci-Foca (in Surgery). *B.S., Bucharest (Rumania), 1959; M.D., 1960; Ph.D., 1965*

Professor of Clinical Comparative Pathology

Dennis F. Kohn (in the Institute of Comparative Medicine). *D.V.M., Ohio State, 1964; M.S., West Virginia, 1969; Ph.D., 1975*

Professor of Clinical Surgical Pathology

Karl Perzin. *B.A., Columbia, 1954; M.D., 1958*

Clinical Professors

Pablo Rubinstein. *M.D., Chile, 1962*

David N. Silvers (also Dermatology). *B.A., Haverford, 1964; M.D., Duke, 1968*

Clinical Professor of Oral Pathology

Melvin N. Blake. *B.S., Massachusetts, 1951; D.D.S., New York University, 1955*

Associate Professors

Jeannette C. Bulinski (also Anatomy & Cell Biology). *B.A., Colorado, 1973; Ph.D., Wisconsin, 1980*

David R. Colman (also Anatomy & Cell Biology) (in the Center for Neurobiology & Behavior). *B.A., New York University, 1970; Ph.D., State University of New York (Downstate), 1977*

John F. Nicholson (also Pediatrics). *B.A., Vanderbilt, 1955; M.D., 1958*

Hermann D. Schubert (also Ophthalmology). *M.D., Dusseldorf (West Germany), 1974*

Associate Professors of Dental & Oral Surgery

Joan A. Phelan. *B.S., Columbia, 1962; M.S., 1967; D.D.S., State University of New York (Stony Brook), 1977*

Victor P. Terranova. *B.A., Rutgers, 1969; D.M.D., College of Medicine and Dentistry of New Jersey, 1972; M.S., Rochester, 1976; Ph.D., 1978*

Associate Professors of Neuropathology

Lester M. Geller. *B.A.*, Cornell, 1947; *M.A.*, Michigan State, 1948; *Ph.D.*, New York University, 1953
 Mavis Kaufman (in Psychiatry). *M.D.*, New York Medical College, 1944

Adjunct Associate Professors

Majid Ali. *M.B., B.S.*, Punjab, 1963; *F.R.C.S.*, Royal, (London), 1968
 Ernest Baden. *M.A.*, Sorbonne, 1946; *D.D.S.*, New York University, 1950; *M.D.*, Geneva, 1962
 Lewis Allen Johnson. *B.A.*, Minnesota, 1951; *M.D.*, 1955
 Michael J. Lotz. *B.A.*, Columbia, 1968; *M.D.*, 1972
 Ah-Kau Ng (in Surgery). *B.S.*, National Chung Hsing University (Taiwan), 1969; *M.D.*, State University of New York (Plattsburgh), 1972; *Ph.D.*, Temple, 1975
 M. Richard Pachter. *M.D.*, Zurich, 1956
 John A. Terzakis. *B.A.*, Columbia, 1957; *M.D.*, New York University, 1961
 Kaity Yannopoulos. *M.D.*, Greece, 1954
 Frederick T. Zugibe. *B.S.*, St. Francis, 1951; *M.S.*, Chicago, 1959; *Ph.D.*, 1960

Associate Professors of Clinical Pathology

Carole Louise Berger (also Dermatology). *B.S.*, City College of New York, 1966; *M.A.*, Columbia, 1971; *M.S.*, 1975; *Ed.D.*, 1976; *Ph.D.*, 1984
 Thomas A. Blumenfeld. *A.A.*, North Carolina, 1960; *M.D.*, Tennessee, 1964
 Vivette Denise D'Agati. *B.A.*, Yale, 1975; *M.D.*, New York University, 1979
 Reba M. Goodman. *B.A.*, Indiana, 1949; *M.A.*, Columbia, 1953; *Ph.D.*, 1956
 Ellen Greenebaum. *B.A.*, Barnard, 1973; *M.D.*, Columbia, 1977
 Mary E. King. *B.A.*, Smith, 1947; *M.D.*, Columbia, 1951
 Charles C. Marboe. *B.A.*, Princeton, 1971; *M.D.*, Pennsylvania State, 1976
 Adrien Moessinger (also Pediatrics). *M.D.*, Lausanne, 1971
 Kathleen Mary O'Toole. *B.S.*, Fordham, 1974; *M.D.*, Albert Einstein, 1978
 May Parisien. *M.D.*, State University (Port-au-Prince), 1966
 Michael Pesce. *B.S.*, St. John's, 1967; *Ph.D.*, 1971
 Heidrun Rotterdam. *M.D.*, Munich (Germany), 1968
 Ekhardt Trenkner. *Ph.D.*, Max-Planck-Institut für Virusforschung (Tübingen, Germany), 1967
 H. Joachim Wigger. *M.D.*, Hamburg, 1954
 Barbara A. Winkler. *M.D.*, Columbia, 1978

Associate Professors of Clinical Neuropathology

Richard Defendini. *B.A.*, Michigan, 1948; *M.A.*, 1952; *M.D.*, Rochester, 1961
 Arthur P. Hays. *B.A.*, Dartmouth, 1962; *Med Sc.D.*, 1963; *M.D.*, Colorado, 1966

Associate Clinical Professors

Irwin A. Almenoff. *B.S.*, College of the City of New York, 1948; *M.D.*, Cornell, 1952
 Daniel W. Benninghoff. *B.A.*, Yale, 1949; *M.D.*, Columbia, 1953
 Phyllis Della-Latta (in Medicine). *B.S.*, St. John's, 1964; *M.S.*, 1966; *Ph.D.*, New York University, 1978
 Daniel J. Fink. *B.S.*, Cornell, 1968; *M.S.*, Massachusetts Institute of Technology, 1970; *M.D.*, Columbia, 1975; *M.Phil.*, 1980
 Ricardo Mesa-Tejada. *B.S.*, Manhattan, 1964; *M.D.*, Madrid, 1970
 Artemis D. Nash. *B.A.*, Smith, 1949; *M.D.*, Columbia, 1953
 Mohamed Osman. *D.V.M.*, Cairo, 1967; *Ph.D.*, Columbia, 1983
 Stanley Simbonis. *B.S.*, Yale, 1953; *M.D.*, 1957

Associate Clinical Professor of Neuropathology

Nicholas J. Willson (in Psychiatry). *B.S., St. Peter's, 1959; M.D., Seton Hall, 1963*

Assistant Professors

Amy Chadburn. *B.S., Oregon, 1979; M.D., Stanford, 1983*

Andrew J. Dwork (in Psychiatry). *B.A., Columbia, 1973; M.D., College of Medicine and Dentistry of New Jersey, 1977*

Gregg G. Gundersen (also Anatomy & Cell Biology). *B.S., Wisconsin, 1977; Ph.D., Washington, 1983*

Debra S. Heller. *B.A., City University of New York, 1971; M.D., New York Medical College, 1977*

Joseph Herbert (also Neurology) (Neuropathology). *B.S., Hebrew (Jerusalem), 1971; M.D., 1975*

Hanina Hibshoosh. *B.A., New York University, 1981; M.D., New York Medical College, 1985*

Giorgio A. Inghirami. *M.D., Torino (Italy), 1981*

John J. Krolewski. *B.S., M.S., Massachusetts Institute of Technology, 1977; M.D., Ph.D., New York University, 1984*

Mary Gwo-Shu Lee (also Public Health) (Tropical Medicine). *B.S., National University of Taiwan, 1978; M.S., 1981; Ph.D., New York University, 1985*

Eugene E. Marcantonio (in Anatomy & Cell Biology). *B.A., Rutgers, 1977; M.D., Ph.D., New York University, 1984*

Timothy E. McGraw. *B.A., Chicago, 1978; Ph.D., New York University, 1985*

Carol M. Troy. *B.A., Brandeis, 1977; M.S., New York University, 1980; M.D., Ph.D., 1984*

Benjamin Tycko. *B.A., Princeton, 1979; M.D., Ph.D., New York University, 1984*

Thomas C. Wright, Jr. *B.A., North Carolina, 1973; M.D., Harvard, 1977*

Scott O. Zeitlin. *B.S., Stanford, 1979; Ph.D., Columbia, 1985*

Adjunct Assistant Professors

Solange G. Abunassar. *M.D., American University of Beirut, 1968*

Alessandra Bini. *B.S., Milano (Italy), 1980; Ph.D., Columbia, 1987*

Larry E. Douglass. *B.A., Washington (St. Louis), 1959; M.D., Vanderbilt, 1960*

Howard B. Goldstein. *B.A., Colgate, 1955; M.D., State University of New York (Albany), 1959*

Arthur I. Hurvitz. *D.V.M., Michigan State, 1964; Ph.D., California (Davis), 1967*

Paul A. Krieger. *B.S., College of the City of New York, 1967; M.D., New York Medical College, 1971*

Harry F. Moussouris. *M.D., State University of New York (Downstate), 1975*

Robert D. Newman. *B.S., California (Los Angeles), 1958; M.D., 1962*

Joseph E. O'Brien. *B.A., Columbia, 1957; M.D., State University of New York (Downstate), 1961*

Assistant Professors of Clinical Pathology

Jerome Owen Cantor. *B.A., Columbia, 1971; M.D., Pennsylvania, 1975*

Joseph M. Ceretta. *B.S., Fordham, 1969; M.S., 1971; Ph.D., 1976*

Kenneth W. Dunn. *B.A., California, 1976; Ph.D., State University of New York (Stony Brook), 1986*

Paul E. Harris. *B.A., California (Berkeley), 1978; Ph.D., Cornell, 1985*

Stephen Keller. *B.S., City College of New York, 1953; M.S., St. John's, 1955; Ph.D., Rutgers, 1959*

Alexander Krichevsky. *P.M., Soviet Army School of Medical Assistants (U.S.S.R.), 1970; D.V.M., Odessa Agricultural Institute (U.S.S.R.), 1975*

John F. O'Connor. *B.S., St. John Fisher, 1960; Ph.D., Rochester, 1969*

Assistant Professor of Clinical Comparative Pathology

Steven R. Brunnert (in the Institute of Comparative Medicine). *B.S., Missouri (Columbia), 1982; D.V.M., 1985*

Assistant Clinical Professors

Stefan D. Epstein. *B.A., Columbia, 1956; M.D., State University of New York (Buffalo), 1960*

Merlin D. Marquardt. *M.D., Wisconsin, 1971*

Horoshi Nakazawa. *M.D., Keio (Tokyo), 1958*

Neelavathy Pushparaj. *B.S., Madras (India), 1957; M.B., B.S., 1961*

Elaine Reed. *B.S., State University of New York (Stony Brook), 1979; M.S., Columbia, 1981; Ph.D., 1983*

Henry G. Shriever. *B.A., Vermont, 1956; M.D., New York Medical College, 1960*

Carol Williams (also Pediatrics). *B.S., California State Polytechnic, 1971; M.D., Autonomous (Guadalajara, Mexico), 1980*

Assistant Clinical Professor of Neuropathology

Michael Kogan. *B.A., Miami, 1964; B.S., 1967; Ph.D., Virginia Polytechnic Institute, 1972*

Associate Research Scientist

David W. O'Neill. *B.A., Cornell, 1980; M.D., Ohio State, 1984*

SPECIAL LECTURERS

David Cowen, M.D.

Paul Ellner, Ph.D.

C. Zent Garber, M.D.

Gabriel C. Godman, M.D.

Austin D. Johnston, M.D.

Raffaele Lattes, M.D.

Conrad Pirani, M.D.

INSTRUCTORS

Ethel Cesarman, Ph.D.

Gee Y. Ching, Ph.D.

David L. Cooper, M.D.

INSTRUCTORS IN CLINICAL PATHOLOGY

Raimundo Gonzalez, M.D.

Elena Zegarelli-Schmidt, Ph.D.

LECTURERS

Michael Baden, M.D.

Paul A. Brown, M.D.

Hyman Donnenfeld, M.D.

Janis F. Klavins, M.D.

Lee L. Rubin, Ph.D.

Robert V. Sidel, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Harlan D. Alpern. *B.S., Michigan, 1967; M.D., Chicago, 1971*

Assistant Clinical Professor

William B. Guiney. *B.A., Cornell, 1970; M.D., Rochester, 1975*

INSTRUCTOR IN CLINICAL PATHOLOGY

Charles A. Ellsworth, M.D.

At Harlem Hospital Center

Professor

Jack W. C. Hagstrom. *B.A., Amherst, 1955; M.D., Cornell, 1959*

Clinical Professors

Prem Chauhan. *F.Sc. Med., Punjab (India), 1942; M.D., Cornell, 1959*

Carlos Navarro. *B.S., National University (Mexico), 1947; M.D., 1955*

Associate Clinical Professor

Helen M. S. Richards. *M.B., B.S., Colombo (Sri Lanka), 1969*

Adjunct Assistant Professor

Eduardo Zappi. *M.D., Freie Universitaet (Berlin), 1968*

Assistant Professor of Clinical Pathology

Edward Moskovic. *M.D., Central (Madrid), 1956*

Assistant Clinical Professors

Claude J. Neptune. *M.D., Haiti, 1963*

Ranjit K. Sachdev. *M.B., B.S., Mysore (Bangalore, India), 1964*

Louys Thomas. *M.D., Port-au-Prince (Haiti), 1965*

SPECIAL LECTURER

Angus C. Sampath, D.Sc.

INSTRUCTOR IN CLINICAL PATHOLOGY

Margarita E. Jimenez, M.D.

At Helen Hayes Hospital

Associate Professor of Clinical Pathology

William David Dempster. *Ph.D., Glasgow, 1979*

At Morristown Memorial Hospital

Professor of Clinical Pathology

Marianne Wolff. *B.A., Hunter, 1948; M.D., Columbia, 1952*

Associate Clinical Professor

Craig Dise. *B.S., Muhlenberg, 1971; M.D., Pennsylvania, 1975; Ph.D., 1978*

Assistant Clinical Professors

Kathleen B. Harrison. *B.S., Fordham, 1972; M.S., Long Island, 1975; Ph.D., Fordham, 1982*

Nancy Joy Hunter. *B.S., Michigan, 1974; M.D., 1978*

Robert S. Katz. *B.A., Haverford, 1972; M.D., Albert Einstein, 1975*

Jory G. Magidson. *M.D., Columbia, 1978*

At Overlook Hospital

Clinical Professor

Bernard M. Wagner. *M.D., Hahnemann, 1946*

Assistant Clinical Professors

Steven L. Goldberg. *B.A., Kenyon, 1963; M.D., State University of New York (Downstate), 1968*

Anthony Marchand. *B.A., Connecticut, 1966; M.D., Duke, 1970*

Joel A. Roth. *B.A., Brooklyn, 1964; M.D., State University of New York (Downstate), 1968*

Donald L. Warkentin. *B.A., Yale, 1961; Ph.D., State University of New York (Syracuse), 1972*

ASSOCIATE IN CLINICAL PATHOLOGY

Frederick van Lente, *M.D.*

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Surgical Pathology

Stephen F. Ryan. *B.S., Regis College (Denver), 1957; M.D., Colorado, 1961*

Associate Professor

David J. Volsky. *B.S., Ben-Gurion University (Israel), 1972; M.S., Hebrew University (Israel), 1975; Ph.D., 1979*

Assistant Professors of Clinical Pathology

Kenneth F. Button. *B.A., Indiana, 1966; M.D., 1970*

Deng Fong Liau. *M.Sc., McGill, 1968; Ph.D., 1971*

Assistant Clinical Professors

Harold P. Gaetz. *B.S., McGill, 1953; M.D., 1958*

Martin Krumerman. *B.S., New York University, 1961; M.D., 1965*

Bozidar Lazarevic. *M.D., Belgrade, 1956*

Corazon Sian. *A.A., Santo Tomas (Philippines), 1958; M.D., 1963*

INSTRUCTORS

Petra Banogon, *M.D.*

Mary J. Potash, *Ph.D.*

INSTRUCTORS IN CLINICAL PATHOLOGY

Elizabeth Ames, *M.D.*

Vijai Katatikorn, *M.D.*

Rose-Sunitha Thayaparan, *M.D.*

Pediatrics

Professor of Clinical Pediatrics and Acting Chairman

John M. Driscoll. *B.A., Hamilton, 1958; M.D., Bowman Gray, 1962*

At Presbyterian Hospital

Professors

- Richard Deckelbaum. *B.S., McGill, 1963; M.D., 1967*
 Ralph B. Dell. *B.A., Pomona, 1957; M.D., Pennsylvania, 1961*
 Darryl C. De Vivo (also Sidney Carter Professor of Neurology). *B.A., Amherst, 1959; M.D., Virginia, 1964*
 Anne A. Gershon. *B.A., Smith, 1960; M.D., Cornell, 1964*
 Welton M. Gersony. *B.A., Syracuse, 1954; M.D., State University of New York (Upstate), 1958*
 L. Stanley James (also Obstetrics & Gynecology). *M.D., Otago (New Zealand), 1948*
 Robert B. Mellins. *B.A., Columbia, 1948; M.D., Johns Hopkins, 1952*
 Sergio Piomelli (James S. Wolf Professor). *B.A., Liceo Sannazzaro (Naples), 1948; M.D., Naples, 1954*
 Michael R. Rosen (also Gustavus A. Pfeiffer Professor of Pharmacology). *B.A., Wesleyan, 1960; M.D., State University of New York (Downstate), 1964*
 David Shaffer (Irving Philips Professor of Child Psychiatry) (also Psychiatry). *M.B., B.S., London, 1961; Academic Diploma Psychological Medicine, 1969*
 Raymond I. Stark (Perinatology) (in Obstetrics & Gynecology). *B.S., Columbia, 1963; M.D., 1970*
 Robert J. Winchester. *B.S., Manhattan, 1958; M.D., Cornell, 1963*

Professor of Pediatric Surgery

- R. Peter Altman (Rudolph H. Schullinger Professor of Pediatric Surgery) (in Surgery). *B.A., Colgate, 1955; M.S., Rochester, 1958; M.D., New York Medical College, 1961*

Professor of Pharmacology

- Joseph Graziano. *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*

Professors of Clinical Pediatrics

- Nicholas Cunningham (also Public Health). *B.A., Harvard, 1950; M.D., Johns Hopkins, 1955*
 John C. Dower. *B.A., Johns Hopkins, 1950; M.D., 1954*
 Harold E. Fox (also Obstetrics & Gynecology). *M.S., Rochester and Oxford, 1972; M.D., Rochester, 1972*
 Arnold P. Gold (also Neurology). *B.A., Texas, 1947; M.S., Florida, 1949; M.D., Lausanne, 1954*
 Jerry C. Jacobs. *B.A., Columbia, 1952; M.D., 1956*
 Tove S. Rosen. *B.A., Rochester, 1961; M.D., State University of New York (Downstate), 1965*
 Peter T. Rothstein (also Anesthesiology). *B.A., Brandeis, 1966; M.D., Albert Einstein, 1970*
 Anneliese L. Sitarz. *B.A., Bryn Mawr, 1950; M.D., Columbia, 1954*

Professor of Clinical Anesthesiology

- Jen-Tien Wung. *M.D., Taipei Medical College, 1956*

Professor of Clinical Genetics & Development

- Dorothy Warburton. *Ph.D., McGill, 1961*

Professor of Clinical Psychiatry

- H. Donald Dunton. *M.D., Rochester, 1945*

Clinical Professors

Fred Agre. *B.A., Lafayette, 1957; M.D., Duke, 1961*
 Russell S. Asnes. *B.A., Boston, 1959; M.D., Tufts, 1963*
 Frederic M. Bomback. *B.A., Brandeis, 1965; M.D., New York University, 1969*
 Roy E. Brown. *A.B., Columbia, 1952; M.D., 1956; M.P.H., South Carolina, 1967*
 William J. Davis. *B.A., Wilkes, 1961; M.D., Columbia, 1965*
 Joseph A. Silverman. *B.A., Princeton, 1952; M.D., Columbia, 1956*

Clinical Professor of Psychiatry

Arthur Green. *B.A., Rochester, 1951; M.D., Amsterdam, 1956*

Senior Research Scientist

Salha S. Daniel (also Anesthesiology). *B.S., London, 1954; Ph.D., 1957*

Associate Professors

Ehud Krongrad. *M.D., Hebrew (Jerusalem), 1965*
 Gilbert W. Mellin. *B.S., Bethany, 1945; M.D., Johns Hopkins, 1949*
 Akira Morishima. *M.D., Keio (Japan), 1954; Ph.D., 1961*
 John F. Nicholson (also Pathology). *B.A., Vanderbilt, 1955; M.D., 1958*

Adjunct Associate Professor

Nigel S. Paneth (in the Sergievsky Center). *A.B., Columbia, 1968; B.M.S., Dartmouth, 1970; M.D., Harvard, 1972; M.P.H., Columbia, 1978*

Associate Professors of Clinical Pediatrics

Linda J. Addonizio. *B.S., Stanford, 1974; M.D., Columbia, 1978*
 Kwame Anyane-Yeboah. *M.D., Ghana, 1972*
 Robyn J. Barst. *B.A., Rochester, 1972; M.D., North Carolina, 1976*
 Jennifer J. Bell. *B.A., Swarthmore, 1953; M.D., New York University, 1961*
 Janna C. Collins. *B.A., Radcliffe, 1965; M.D., New York University, 1972*
 Leslie Davidson (also Public Health) (Epidemiology) (in the Sergievsky Center). *B.A., Radcliffe, 1970; M.D., Columbia, 1978*
 Ronald Gould Emerson (also Neurology). *M.D., New York University, 1975*
 Candace Jean Erickson. *B.A., George Washington, 1969; M.D., Maryland, 1973*
 Charles H. Feldman. *B.A., Columbia, 1966; M.D., State University of New York (Downstate), 1970*
 James H. Garvin. *B.A., Harvard, 1968; M.D., Jefferson, 1976*
 Ludovico Guarini. *M.D., Naples (Italy), 1974*
 Allan Hordof. *B.A., Hobart, 1962; M.D., New York University, 1966*
 Sudha Kashyap. *M.B., B.S., St. John's (Bangalore, India), 1972*
 Adrien Mocessinger (also Pathology). *M.D., Lausanne, 1971*
 Martin Nash. *B.A., Duke, 1960; M.D., 1964*
 Jane Pitt. *B.A., Radcliffe, 1960; M.D., 1964*
 Alice S. Prince. *B.A., Wellesley, 1971; M.D., Columbia, 1975*
 Joan A. Regan. *B.S., Mount St. Vincent, 1969; M.D., Missouri, 1974*
 Karl F. Schulze. *B.A., Carleton, 1961; M.D., Rochester, 1965*
 Paul A. Shurin. *B.A., Brooklyn, 1961; M.D., Harvard, 1965*

Associate Clinical Professors

Robert Appleby. *M.D., Johns Hopkins, 1949*
 Joan F. Atkin. *B.A., Rutgers, 1967; M.D., Hawaii, 1978*
 William A. Bauman. *B.S., Harvard, 1943; M.D., Columbia, 1946*

Roger Challop. B.S., *Brooklyn*, 1963; M.D., *New York Medical College*, 1967
 Bernard R. Feldman. B.S., *William and Mary*, 1955; M.D., *Chicago*, 1959
 Burton Grebin. B.A., *Adelphi*, 1962; M.D., *New York Medical College*, 1966
 Constance J. Hayes. B.S., *St. Rose*, 1959; M.D. *Loyola*, 1965
 Mathilde Irigoyan. B.A., *Buenos Aires*, 1966; M.D., 1971
 Kenneth H. Katz. B.A., *Lafayette*, 1968; M.D., *New York Medical College*, 1973
 George Lazarus. B.A., *Yale*, 1967; M.D., *Columbia*, 1971
 Harriet E. McGurk. B.A., *Radcliffe*, 1967; M.D., *Albert Einstein*, 1973
 Michael Novogroder. B.S., *Brooklyn*, 1965; M.D., *State University of New York (Upstate)*, 1969
 Jack Shiller. B.A., *North Carolina*, 1947; M.D., *Columbia*, 1952
 Thomas Joseph Starc. B.A., *California (Berkeley)*, 1972; M.D., *Mt. Sinai*, 1976

Research Scientist

Rajasekhar Ramakrishnan. B. Tech., *India Institute of Technology*, 1968; M.S., *Columbia*, 1971;
 D. Eng. Sc., 1974

Assistant Professors

Claudia Chiriboga-Klein (also Neurology). M.D., *National University of Buenos Aires (Argentina)*, 1982
 Edward Dwyer. B.A., *Kenyon*, 1975; M.D., *Medical College of Ohio*, 1981
 Daphne Hsu. B.A., *Radcliffe*, 1978; M.D., *Yale*, 1982
 Anne Hurler-Jensen. M.D., *Liege (Belgium)*, 1966
 Silviu Itescu. M.B., B.S., *Monash (Australia)*, 1981
 Anastassios C. Koumbourlis. M.D., *University of Athens*, 1980; M.P.H., *Johns Hopkins*, 1983
 Philip S. Larussa. B.S., *State University of New York (Stony Brook)*, 1970; M.D., *Bologna (Italy)*, 1978
 Suzanne C. Li. B.S., *Yale*, 1978; M.A., *Columbia*, 1982; M.D., Ph.D., 1985
 Thomas A. Moulton. B.A., *Case Western Reserve*, 1979; M.D., *Loyola*, 1984
 Pramod Narula. M.B., B.S., *Maulana Azad (India)*, 1977
 Stephen W. Nicholas. B.S., *Wyoming*, 1975; M.D., *Colorado*, 1981
 Douglas R. Nordli, Jr. (also Neurology). B.A., *Haverford*, 1980; M.D., *Columbia*, 1984
 Lynne M. Quittell (also Medicine). B.A., *Hampshire*, 1975; M.D., *Tel Aviv*, 1981
 Andrew David Racine. B.A., *Harvard*, 1974; M.D., *New York University*, 1983
 Lisa Saiman. B.A., *Cornell*, 1977; M.D., *Albert Einstein*, 1983
 Howard A. Zucker (also Anesthesiology). B.S., *McGill*, 1979; M.D., *George Washington*, 1982

Assistant Professor of Public Health

David Evans (Sociomedical Sciences) (in Pediatrics). B.A., *Harvard*, 1964; M.A., *Northwestern*, 1969; Ph.D., 1975

Assistant Professors of Clinical Pediatrics

Gaya S. Aranoff. B.A., *Barnard*, 1972; M.D., *Albert Einstein*, 1975
 Christine Marie Donnelly. B.A., *Manhattanville*, 1973; M.D., *Columbia*, 1978
 Sarmistha Bhaduri Hauger. B.S., *Texas*, 1972; M.D., *Loyola Stritch*, 1976
 Ramamohana R. Kairam (also Neurology). M.B., B.S., *Andhra (India)*, 1970
 Mary J. Marron-Corwin. B.S., *Malloy*, 1980; M.D., *Far Eastern*, 1985
 Mary McCord. B.A., *Williams*, 1978; M.D., *Columbia*, 1983; M.P.H., 1986
 Glenn J. B. Mendoza. B.S., *Philippines*, 1972; M.D., 1976
 Celia Ores. M.D., *Berne (Switzerland)*, 1956
 Marlon S. Rosenbaum (also Medicine). B.A., *Vassar*, 1976; M.D., *New York University*, 1980
 Nan Salamon. B.S., *Cornell*, 1975; M.D., *Pittsburgh*, 1981
 Ulana Sanocka. B.S., *Brooklyn*, 1968; M.D., *New York University*, 1974
 Robert L. Seigle. B.A., *Northwestern*, 1970; M.D., *Columbia*, 1974
 Elizabeth A. Wedemeyer. B.A., *Yale*, 1979; M.D., *George Washington*, 1984

Assistant Professor of Clinical Psychology

Donald E. Hutchings (in Psychiatry). B.A., *Wake Forest*, 1959; M.A., *Chicago*, 1963

Assistant Clinical Professors

Robert E. Antar. B.S., *Brooklyn*, 1965; M.D., *Louvain (Belgium)*, 1970

Michael Bartalos. M.D., *Heidelberg*, 1960

James T. Belisle. B.S., *Cornell*, 1979; M.D., *Columbia*, 1984

Alexander Blum, Jr. B.S., *Yale*, 1944; M.D., *Harvard*, 1947

Jocelyn Brown. M.D., *Xavier*, 1980

Thomas M. Connor. B.S., *St. Francis*, 1961; M.D., *Bologna*, 1961

Amy R. DeFelice. B.S., *City University of New York*, 1976; M.D., *Universidad Autonoma de Guadalajara (Mexico)*, 1980

Marian B. Demeny. B.A., *Barnard*, 1969; M.D., *New York University*, 1973

Yvonne T. Driscoll. B.A., *Trinity*, 1958; M.D., *Women's Medical College of Pennsylvania*, 1962

T. Donald Eisenstein. B.A., *Johns Hopkins*, 1952; M.D., *State University of New York (Albany)*, 1956

Jane Eliot Fried (in Psychiatry). B.A., *Vassar*, 1964; M.D., *Columbia*, 1970

Joseph W. Gaffney. B.S., *Boston*, 1977; M.D., *New York Medical College*, 1981

Gustave Gavis. B.A., *Indiana*, 1948; M.D., *State University of New York (Downstate)*, 1952

Stephen Glaser. B.A., *Columbia*, 1960; M.D., *New York University*, 1964

Hazel Goodwin. B.A., *Eastern Nazarene (Massachusetts)*, 1957; M.D., *McGill*, 1961

Bertram H. Grossman. B.A., *North Carolina*, 1948; M.D., *Georgetown*, 1959

Robert A. Hands, Jr. M.D., *Cornell*, 1968

Leonard Kasen. B.S., *Rutgers*, 1953; M.S., 1954; M.D., *Albert Einstein*, 1960

Stuart Kaufman. B.A., *State University of New York (Buffalo)*, 1975; M.D., *Medical College of Pennsylvania*, 1980

Philip Kazlow. B.A., *Yeshiva*, 1976; M.D., *Mt. Sinai*, 1980

Robert M. Klein. B.A., *New York University*, 1973; M.D., *New York Medical College*, 1976

Murray D. Kuhl. B.S., *Cincinnati*, 1961; M.D., *Chicago*, 1965

Betty C. M. L. Kuo. B.A., *Vassar*, 1959; M.D., *State University of New York (Albany)*, 1964

Nyla Lamm. B.S., *State University of New York (Stony Brook)*, 1980; M.S.W., 1982; Ed.M., *Teachers College*, 1984; Ed.D. 1988

Elaine C. Lee. B.A., *Skidmore*, 1971; M.A., *New York University*, 1972; M.D., *Dartmouth*, 1979

William Lee. B.A., *Columbia*, 1979; M.D., *New York University*, 1983

Judith Lusk. B.A., *Radcliffe*, 1974; M.D., *Tufts*, 1978

Zvi S. Marans. B.A., *Columbia*, 1979; M.D., *Pennsylvania*, 1984

Mona Milstein. B.A., *State University of New York (Binghamton)*, 1965; M.D., *State University of New York (Buffalo)*, 1969

Harriette R. Mogul. B.A., *Bryn Mawr*, 1961; M.D., *Albert Einstein*, 1965

Damyanti Moorjani (also Rehabilitation Medicine). B.S., *Bombay*, 1953; M.D., *Grant (Bombay)*, 1957

Morton H. Rachelson. B.A., *State University of New York (Syracuse)*, 1946; M.D., *Tulane*, 1950

David J. Resnick. B.A., *Yeshiva*, 1982; M.D., *State University of New York (Downstate)*, 1986

Malcolm S. Schwartz. D.O., *College of Osteopathic Medicine and Surgery*, 1967

Kung Tso Sheng. M.D., *St. John's (Shanghai)*, 1954

David Siegler. B.S., *Columbia*, 1975; M.D., *Tufts*, 1979

Susan Spear. B.A., *Wellesley*, 1968; M.D., *Columbia*, 1972

Elizabeth K. Stern. B.A., *Michigan State*, 1967; M.S., *Michigan*, 1969; Ph.D., 1974; M.D., *Columbia*, 1978

Benjamin Hoi Tsang. B.A., *Columbia*, 1976; M.D., *Albert Einstein*, 1980

Carol Williams (also Pathology). B.S., *California State Polytechnic*, 1971; M.D., *Autonomous (Guadalajara, Mexico)*, 1980

David Wisotsky. B.S., *College of the City of New York*, 1970; M.D., *Albert Einstein*, 1974

Assistant Clinical Professors of Psychiatry

Elisabeth B. Guthrie. *B.A., Sarah Lawrence, 1979; M.D., Albert Einstein, 1981*
 Barbara Ann Liskin. *M.D., Columbia, 1979*
 Boris Rubinstein. *M.D., Mexico, 1970*

Associate Research Scientists

Elizabeth Anisfeld. *B.A., Toronto, 1960; M.A., McGill, 1961; Ph.D., 1964*
 Maria Ann Crisafi. *Ph.D., Illinois, 1985*
 Moshe J. Levison. *B.A., Pennsylvania, 1965; Ph.D., Indiana, 1973*
 Carol Seaman. *B.S., Southern California, 1964; M.S., New York University, 1977*
 Tetsunori Seki. *B.S., Kyoto (Japan), 1971; M.S., Nagoya (Japan), 1974; Ph.D., 1980*
 Sharon P. Steinberg. *B.S., City College of New York, 1967*
 Xiuhua Wang. *B.S., Shanghai Fudan, 1982; M.S., California (Los Angeles), 1986; Ph.D., 1989*

SPECIAL LECTURER

Sylvia P. Griffiths, M.D.
 Michael Katz, M.D.
 James A. Wolff, M.D.

LECTURERS

Albert Aharon, M.D.
 Judith R. Marcus, M.D.
 Lucille A. Perrotta, M.D.
 Yaakov Shechter, Ph.D.

ASSOCIATES IN CLINICAL PEDIATRICS

Heidi E. Beutler, M.D.
 Lilian Wah-Ying Chiu, M.D.
 Maryann J. Colenda, M.D.
 John L. Costa, M.D.
 Ann L. Engelland, M.D.
 Alan Kanter, M.D.
 Mariellen M. Lane, M.D.
 Peter F. Migel, M.D.
 Neil Minikes, M.D.
 Carlyn Ann Oppedisano, M.D.
 I. Jill Ratner, M.D.
 Martin M. Rodriguez-Ema, M.D.
 Robert M. Schwartz, M.D.
 Elynn M. Sugarman, M.D.
 Nikki Lynn Timko, M.D.
 Mary Versfelt, M.D.
 Margaret C. Wang, M.D.
 Jacqueline Weingarten-Arans, M.D.

ASSOCIATE IN CLINICAL NURSING

Jane C. Andersen, M.S.

INSTRUCTORS

Patrick A. Caruso, M.D.
 Joan T. Merrill, M.D.
 Carlos H. Montoya-Iraheta, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS

Karen Altmann, M.D.
 Anne H. Armstrong-Coben, M.D.
 Scott D. Bookner, M.D.
 Dennis Brown, M.D.
 Maury Buchalter, M.D.
 Kuang-Chung Hu Chien, M.B.
 Bernard Etra, M.D.
 Arlene Falk, M.D.
 Kevin L. Fletcher, M.D.
 Howard M. Friedman, M.D.
 Nelly Jouayed, M.D.
 Diane Kerstein, M.D.
 Janice Fern Klein, M.D.
 Rosemary Klenk, M.D.
 Michael L. Lapkin, M.D.
 Dorothy Levine, M.D.
 Stacey M. Linwood, M.D.
 Gloria Fun-Lun Lo, M.D.
 Susan K. Lovich, M.D.
 Lesley G. Miller, M.D.
 Valerie Jai Niketakis-Wujciak, M.D.
 Adrienne R. Rogers, M.D.
 Rosalinda Rubinstein, M.D.
 Gail Schewitz, M.D.
 Susan Skalsky, M.D.
 John R. Stafford, M.D.
 Allison Taylor, M.D.
 Donna M. Timchak, M.D.
 Rachel J. Weller, M.D.
 Susan Yoo Sonhe, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professors

Allan S. Cunningham. *B.A., Yale, 1962; M.D., Case Western Reserve, 1966*
 Gerald B. Kolski. *B.A., Dartmouth, 1964; Ph.D., Purdue, 1969; M.D., Cornell, 1976*

ASSOCIATES IN CLINICAL PEDIATRICS

Douglas H. Cannon, M.D.
 Mark F. Ditmar, M.D.
 John G. Freehafer, M.D.
 Ann Fay Mick, M.D.
 Margaret R. Young, M.D.

At Harlem Hospital Center

Professor

Margaret Heagerty. *B.A., Seton Hall, 1957; B.S., West Virginia, 1959; M.D., Pennsylvania, 1961*

Professor of Clinical Pediatrics

Gene-Ann Polk. *B.A., Oberlin, 1948; M.D., Woman's Medical College of Pennsylvania, 1952; M.P.H., Columbia, 1958*

Associate Professor of Clinical Pediatrics

Wiener Leblanc. *B.S., Haiti, 1950; M.D., 1956*

Associate Clinical Professors

Vincent E. Hutchinson. *M.B., B.S., West Indies, 1972*
 Yusuf M. Khakoo. *M.B., B.S., Bombay, 1962*

Assistant Professors

Natalia Kanem (also Public Health) (in the Sergievsky Center). *A.B., Harvard, 1976; M.D., Columbia, 1980*

Danielle Laraque. *B.S., California (Los Angeles), 1976; M.D., 1981*

Assistant Professors of Clinical Pediatrics

Elaine J. Abrams. *B.A., Princeton, 1978; M.D., Columbia, 1982*
 Araceli R. Ancajas. *M.D., Santo Tomas (Philippines), 1961*
 Florence G. Crawford. *B.A., Drew, 1967; M.D., Cornell, 1971; M.P.H., Columbia, 1987*
 Josephine Kerr. *B.A., Cornell, 1947; M.D., New York University, 1951*

Assistant Clinical Professors

Beverly Anderson. *B.A., Stanford, 1974; M.D., Albert Einstein, 1977*
 David Bateman. *B.A., Wooster, 1968; M.D., Tufts, 1973*
 Evelyn Davis. *B.A., City College of New York, 1963; M.D., New York University, 1979*
 Serge Fenelon (also Rehabilitation Medicine). *M.D., Lausanne, 1973*
 Irene Fennoy. *B.A., Stanford, 1968; M.D., California (San Francisco), 1973*
 Delores J. Gayle-Thompson. *M.D., Howard, 1967*

Catherine A. Hansen. *B.A., Carleton, 1978; M.D., Chicago, 1982*
 Harry Moreau. *M.D., Universidad Autonoma de Mexico, 1977*
 William J. Moss. *B.A., Wesleyan, 1980; M.D., Columbia, 1984*
 Muriel M. Petioni. *B.S., Howard, 1934; M.D., 1937*
 Maria Pyrgerou-Kofinas. *M.D., Athens (Greece), 1975*
 Marguerita A. Silvera. *B.S., Brooklyn, 1969; M.D., Albert Einstein, 1973*
 Maria S. Suarez. *B.S., Puerto Rico, 1973; M.D., 1978*
 Claudina Y. Wallace. *B.S., Howard, 1963; M.D., 1967*
 Charles A. Welborn. *M.P.H., M.D., Tulane, 1980*

INSTRUCTORS IN CLINICAL PEDIATRICS

Roberto Araiza, M.D.
 Jacqueline Avin, M.D.
 Susan E. Champion, M.D.
 Sofia De la Cruz, M.D.
 Bruce M. Henry, M.D.
 Shane P. Hoffman, M.D.
 Emily Jackness. M.D.
 Margaret A. Jackson, M.D.
 Asma J. Sadiq, M.B.,B.S.
 Beverley J. Sheares, M.D.
 Carole M. Wilson, M.D.

INSTRUCTOR IN CLINICAL NURSING

Carlether G. Burwell, M.A.

At Helen Hayes Hospital

Assistant Professor of Clinical Pediatrics

Richard J. Hershcopf. *B.S., State University of New York (Buffalo), 1970; M.S., M.D., 1974*

At Morristown Memorial Hospital

Professor of Clinical Pediatrics

John T. Truman. *B.A., McMaster, 1957; M.D., Toronto, 1960; M.P.H., Harvard, 1983*

Clinical Professor

Stephen Wang. *B.A., Columbia, 1960; M.D., 1964*

Associate Professor of Clinical Pediatrics

Walter D. Rosenfeld. *B.S., Wisconsin, 1972; M.D., Temple, 1975*

Associate Clinical Professors

Joan F. Atkin. *B.A., Rutgers, 1967; M.D., John A. Burns (Honolulu), 1978*
 Lawrence M. Skolnick. *B.A., Queens (New York), 1968; M.D., New York University, 1972; M.P.H., North Carolina, 1980*
 Harold Starkman. *B.A., New York University, 1973; M.D., Albert Einstein, 1976*

Associate Clinical Professor of Child Development

Shirley P. Hoeman. *B.S.N., Missouri, 1964; M.P.H., Minnesota, 1974; M.A., Rutgers, 1982; Ph.D., 1984*

Assistant Professor of Clinical Pediatrics

Theodore Andrew Kastner. *B.A., Colgate, 1977; M.D., Connecticut Medical College, 1981*

Assistant Clinical Professors

William Chernack. *A.B., Cornell, 1966; M.D., New York Medical College, 1970*

Martin Lewis Cohen. *M.D., State University of New York (Upstate), 1967*

Ella Cummins. *B.A., Smith, 1935; M.D., State University of New York (Albany), 1939*

Gary E. Eddey. *B.S., Maryland, 1976; M.S., Pittsburgh, 1978; M.D., Cornell, 1983*

Henry J. Kim. *M.D., Seoul National University, 1962*

David E. Knoop. *B.A., Harvard, 1958; M.D., Yale, 1962*

Robert Kornblum. *B.A., Columbia, 1958; M.D., State University of New York (Downstate), 1962*

Mary Ann Lo Frumento. *B.A., Columbia, 1977; M.D., Pennsylvania Medical College, 1981*

William Lupatkin. *B.S., Columbia, 1965; M.S., 1966; Ph.D., 1970; M.D., Miami, 1974*

Gaines M. Mimms. *B.A., Duke, 1971; M.D., Bruxelles (Belgium), 1979*

Andrew Schenkman. *M.D., Chile, 1976*

Calvin T. Shen. *B.S., Yale, 1981; M.D., State University of New York (Downstate), 1985*

INSTRUCTORS IN CLINICAL PEDIATRICS

Julie A. Ashton-Thrun, M.D.

Fern Gotfried, M.D.

Elizabeth Rose, M.D.

Kathleen A. Selvaggi, M.D.

Barry D. Weinreb, M.D.

Ann S. Wittpenn, M.D.

At Overlook Hospital

Clinical Professors

Gloria Schrager. *B.A., Brooklyn, 1944; M.D., Woman's Medical College of Pennsylvania, 1948*

Lawrence H. Vallet. *B.S., Tulane, 1958; M.D., Dalhousie, 1965*

Associate Clinical Professors

Solomon J. Cohen. *B.A., Cornell, 1944; M.D., Johns Hopkins, 1951*

Stephen M. Golden. *M.D., New York University, 1970*

Assistant Clinical Professors

Joseph I. Boylan. *B.A., Columbia, 1951; M.D., Yale, 1955*

Frederick C. Braun, Jr. *B.S., Georgetown, 1951; M.D., Jefferson, 1955*

Howard S. Britt. *B.A., M.D., Boston, 1970*

Steven Diamond. *B.S., Brooklyn, 1970; M.D., Pennsylvania, 1974*

Burton M. Feinsmith. *B.S., Arkansas, 1949; M.S., Florida, 1951; M.D., Berne, 1961*

Frank P. Frenda. *B.A., Johns Hopkins, 1959; M.D., Padua (Italy), 1965*

Stephen Halpern. *B.A., Rochester, 1972; M.D., Chicago, 1976*

John H. Krikorian. *B.A., Yale, 1958; M.D., Bowman Gray, 1963*

Donald A. Leichter. *B.S., Duke, 1974; M.D., Cornell, 1980*

Carol Kay Lissenden. *B.A., Pennsylvania, 1959; M.D., Woman's Medical College of Pennsylvania, 1964*
 Ophelia James Mall. *M.D., Dow Medical College (Pakistan), 1968*
 Lewis I. Sank. *B.A., Johns Hopkins, 1957; M.D., 1961*
 Frederic A. Schulaner. *B.S., Tufts, 1955; M.D., 1959*
 Sandy P. Waran. *M.D., Ceylon, 1968*

ASSOCIATES IN CLINICAL PEDIATRICS

Paul Avondoglio, M.D.
 Wesley Boodish, M.D.
 Martin Diamond, M.D.
 Paul A. Kearney, M.D.
 Barry Lauton, M.D.
 John F. Vigorita, M.D.
 Donald Wight, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS

Ghitta Eibschutz, M.D.
 Carl H. Herman, M.D.
 Alexander R. Horowitz, M.D.
 Victor S. Lamberto, M.D.
 Shelly Lankowsky, M.D.
 Uday C. Mehta, D.C.H.
 Alice Merkrebs, M.D.
 Bharati S. Mullick, M.D.
 John Owen Percy, M.D.
 Stanislaw Rosnowski, M.D.
 Arvind P. Shah, M.D.
 James Sorger, M.D.
 Rao V. Vinnakota, M.B., B.S.

At St. Luke's-Roosevelt Hospital Center

Professors

Louis Z. Cooper. *B.S., Yale, 1954; M.D., 1957*
 Lenore S. Levine. *B.A., Vassar, 1954; M.D., New York Medical College, 1958*

Adjunct Professor of Public Health

Mathilde Krim (Health Policy & Management). *B.S., Geneva (Switzerland), 1948; Ph.D., 1953*

Professor of Clinical Pediatrics

Doris L. Wethers. *B.S., Queens, 1948; M.D., Yale, 1952*

Associate Professor of Clinical Pediatric Virology

Elena B. Klein. *M.D., State Institute of Medicine and Pharmacy (Rumania), 1953; Ph.D., Institute of Microbiology (Rumania), 1972*

Associate Clinical Professor

Farrokh Shahrivar. *M.D., Tehran, 1966*

Assistant Professor

Sunita Bhattacharya. *M.B., B.S., All-India Institute of Medical Sciences, 1968*

Assistant Professors of Clinical Pediatrics

Mary N. B. Horlick. *B.A., Wisconsin, 1968; M.D., New York University, 1976*

Ilene S. Kaufman. *B.A., Pennsylvania, 1979; M.D., 1983*

Assistant Professor of Clinical Child Development

Madeline W. Appell. *B.A., Queens, 1962; M.A., 1963*

Assistant Professor of Clinical Psychology

Harvey Haynes Mar. *B.S., Washington (Seattle), 1972; M.A., Columbia, 1973; Ph.D., 1977*

Assistant Clinical Professors

Dennis Allendorf. *B.S., Georgetown, 1965; M.D., New York Medical College, 1970*

Anastasios Anastasiades. *M.D., Athens, 1950*

Carmelita V. Britton. *B.S., Rensselaer Polytechnic Institute, 1973; M.D., State University of New York (Albany), 1973*

Richard Gunnar Carlson (also Medicine). *B.S., Trinity (Hartford), 1966; M.D., Columbia, 1970*

Alwyn Theodore Cohall. *B.A., Wesleyan, 1976; M.D., College of Medicine and Dentistry of New Jersey, 1980*

Herbert I. Cohen. *M.D., Johns Hopkins, 1949*

Lucia L. Cristinoiu. *M.D., Institute of Medicine & Pharmacy Bucharest (Romania), 1971*

R. Ragabardial Dwarka. *B.S., Hebrew (Jerusalem), 1965; M.D., 1969*

Ranjeet G. Grover. *M.B., B.S., Christian (India), 1960*

Diane Hochlerin. *B.S., Brooklyn, 1962; M.D., Women's Medical College of Pennsylvania, 1966*

Fadel M. Hochroth. *B.A., Louisville, 1953; M.D., 1957*

Nancy C. Holahan. *B.S., Fordham, 1966; M.D., College of Medicine and Dentistry of New Jersey, 1970*

Harry Kimmel. *B.A., St. Andrews (Bucharest), 1940; M.D., Bucharest, 1949*

Catherine Lodyjensky. *M.D., Montreal, 1943*

Neil Lombardi (also Neurology). *B.A., M.D., Boston, 1967*

David S. Mazza. *B.A., Vermont, 1969; M.A., 1971; M.D., 1977*

Richard Mones. *B.A., Brooklyn, 1967; M.D., New York Medical College, 1971*

Karen Soren. *B.A., Harvard, 1978; M.D., New York University, 1982*

Shantha Subramaniam. *M.B., B.S., Madras (India), 1962*

Max F. Van Gilder. *B.S., Tulane, 1967; M.D., 1971*

Elizabeth Watkins. *B.A., Randolph-Macon Women's College, 1947; M.D., Columbia, 1951*

Assistant Clinical Professor of Family Practice

Grace M. Wang. *B.A., Michigan, 1975; M.D., Cornell, 1982*

Associate Research Scientist

Joseph A. Son nabend. *M.B., Ch.B., Witwatersrand (South Africa), 1956*

ASSOCIATES IN CLINICAL PEDIATRICS

Dora M. Alvarez, M.D.
 Renata Frenkel, M.D.
 Thomas H. Hyatt, Jr., M.D.
 Ruth E. Kessler, M.D.
 Kusum Khanna, M.B.,B.S.
 Richard Gary Merkler, M.D.
 Edward A. Nichols, M.D.
 Flora Ramirez, M.D.
 Melissa Matthews Sedlis, M.D.
 Barbara E. Strassberg, M.D.
 Thelma Verano-Santiago, M.D.
 Priscilla Ware, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS

Carlos Emilio Arzeno, M.D.
 Cynthia G. Boakyc, M.B.,Ch.B.
 Nelly T. Boggio, M.D.
 Roberto E. Corrales, M.D.
 Reethamma Daniel, M.B.,B.S.
 Luminita M. David, M.D.
 Maria Dominicis, M.D.
 Morel Duverseau, M.D.
 Yasmin A. Hassan, M.B.,B.S.
 Catherine A. Lenz Canary, M.D.
 Roberta E. Leon, M.D.
 Pleno J. Moise, M.D.
 Michael A. Nagel, M.D.
 Amalia Reyes, M.D.
 Ana B. Soto, M.D.
 Geraldine M. Summa, M.D.
 Eric C. Weiselberg, M.D.

Pharmacology

David Hosack Professor and Chairman

Brian F. Hoffman. *A.A., Princeton, 1943; M.D., Long Island, 1947*

Professors

J. Thomas Bigger, Jr. (also Medicine). *B.A., Emory, 1955; M.D., Georgia, 1960*
 John P. Bilezikian (also Medicine). *B.A., Harvard, 1965; M.D., Columbia, 1969*
 Joseph Graziano (in Pediatrics). *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*
 Norman Kahn (also Edwin S. Robinson Professor of Dental & Oral Surgery). *B.A., Columbia, 1954; D.D.S., 1958; Ph.D., 1964*
 Harold C. Neu (also Medicine). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
 Michael R. Rosen (Gustavus A. Pfeiffer Professor) (also Pediatrics). *B.A., Wesleyan, 1960; M.D., State University of New York (Downstate), 1964*
 Andrew L. Wit. *B.S., Bates, 1963; Ph.D., Columbia, 1968*

Adjunct Professors

Ira Cohen. *B.A., Columbia, 1969; M.D., Ph.D., New York University, 1974*
 Paul F. Cranefield. *B.S., Wisconsin, 1946; Ph.D., 1951; M.D., Albert Einstein, 1964*
 Leslie A. Leinwand. *B.S., Cornell, 1972; Ph.D., Yale, 1977*
 Peter K. T. Pang. *B.S., Hong Kong, 1964; M.S., Yale, 1968; Ph.D., 1970*
 Robert M. Weiss. *B.S., Franklin and Marshall, 1957; M.D., State University of New York (Downstate), 1960*

Professor of Clinical Psychopharmacology

Michael Stanley (in Psychiatry). *M. Phil., City University of New York, 1978; M.D., Mt. Sinai, 1979*

Senior Research Scientist

Peter Danilo, Jr. *Ph.D., Columbia, 1974*

Associate Professors

- Penelope Altman Boyden. *B.A.*, *Mills College*, 1970; *M.A.*, *M. Phil.*, *Columbia*, 1976; *Ph.D.*, 1979
 Daniel J. Goldberg (in the Center for Neurobiology & Behavior). *Ph.D.*, *Yale*, 1974
 Richard B. Robinson. *Ph.D.*, *Illinois*, 1975
 Steven A. Siegelbaum (in the Center for Neurobiology & Behavior). *Ph.D.*, *Yale*, 1978

Associate Professor of Clinical Medicine

- Susan F. Steinberg. *B.S.*, *Massachusetts Institute of Technology*, 1972; *M.D.*, *Harvard*, 1976

Associate Professor of Clinical Public Health

- Alan M. Jeffrey (Environmental Health). *B.S.*, *Hull (United Kingdom)*, 1966; *Ph.D.*, *College of North Wales (United Kingdom)*, 1970

Research Scientists

- Steven Jay Feinmark. *B.A.*, *Johns Hopkins*, 1974; *M.S.*, *George Washington*, 1977; *Ph.D.*, 1980
 Richard Paul Kline. *B.A.*, *Harvard*, 1968; *M.S.*, *Pennsylvania*, 1970; *Ph.D.*, 1975
 Yvonne Vulliemoz (also Anesthesiology). *M.S.*, *Lausanne*, 1958; *Ph.D.*, *Paris*, 1969

Assistant Professors

- Lisa Ebihara. *B.S.*, *Northwestern*, 1975; *Ph.D.*, *Duke*, 1980; *M.D.*, 1981
 Yoshihiro Ishikawa. *M.D.*, *Yokohama City University*, 1984
 Steve Sorota. *B.S.*, *Connecticut*, 1977; *Ph.D.*, 1986
 Cy Aaron Stein (also Medicine). *B.A.*, *Brown*, 1974; *Ph.D.*, *Stanford*, 1978; *M.D.*, *Albert Einstein*, 1982
 Gea-Ny Tseng. *B.S.*, *National University of Taiwan*, 1977; *M.S.*, 1979; *M. Phil.*, 1981; *Ph.D.*, *Columbia*, 1985
 Judah Z. Weinberger (also Medicine). *B.A.*, *Columbia*, 1974; *M.A.*, 1975; *M.D.*, *Ph.D.*, *Harvard*, 1980

Adjunct Assistant Professors

- Robert M. Clancy. *B.A.*, *St. Louis*, 1974; *Ph.D.*, *Illinois*, 1982
 Edward B. Kirsten. *B.S.*, *Fairleigh Dickinson*, 1962; *M.S.*, *New York University*, 1966; *Ph.D.*, *College of the City of New York*, 1969
 Daniel E. Lemons (in Rehabilitation Medicine). *B.A.*, *Goshen*, 1974; *M.S.*, *Portland State*, 1978; *M. Phil.*, *Columbia*, 1982; *Ph.D.*, 1986
 Walter Spinelli. *B.A.*, *Milan (Italy)*, 1973; *M.S.*, 1978; *Ph.D.*, *Columbia*, 1984

Associate Research Scientists

- Donald William Burmeister. *B.S.*, *City College of New York*, 1975; *Ph.D.*, *City University of New York*, 1982
 Stephen M. Dillon. *B.S.E.*, *Pennsylvania*, 1976; *M.S.E.*, *Ph.D.*, 1984
 Martha E. Heath (also Rehabilitation Medicine). *B.S.*, *California (Hayward)*, 1973; *M.S.*, 1975; *Ph.D.*, *Cambridge (Great Britain)*, 1979
 Xiao-Li Ren. *M.D.*, *Shanxi (China)*, 1976; *Ph.D.*, *Beijing (China)*, 1987
 Jianan Yao. *B.S.*, *Henan (China)*, 1983; *M.S.*, *Beijing (China)*, 1987; *Ph.D.*, 1990

SPECIAL LECTURERS

- Wilbur Sawyer, *M.D.*
 Hsueh-Hwa Wang, *M.D.*

At Mary Imogene Bassett Hospital

Assistant Professor of Clinical Pharmacology

Joseph S. Bertino, Jr. (in Medicine). *B.S., State University of New York (Buffalo), 1976; Dr. Pharm., 1978*

At Helen Hayes Hospital

Associate Professor of Clinical Neuropharmacology

Robert S. Sloviter (in Neurology). *B.S., Drexel, 1973; Ph.D., Pennsylvania State, 1978*

Assistant Professor of Clinical Neuropharmacology

Helen E. Scharfman (in Neurology). *B.A., Vassar, 1981; Ph.D., Uniformed Services (Bethesda), 1986*

Physiology and Cellular Biophysics

John C. Dalton Professor and Chairman

Samuel C. Silverstein. *B.A., Dartmouth, 1958; M.D., Albert Einstein, 1963*

Professors

Qais Al-Awqati (also Robert F. Loeb Professor of Medicine). *M.B., Ch.B., Baghdad, 1962*
Michel Ferin (in Obstetrics & Gynecology and the Center for Reproductive Sciences).

M.D., Louvain, 1964

Michael Field (also Medicine). *B.A., Chicago, 1953; M.D., Boston, 1959*

Jorge Fischbarg (in Ophthalmology). *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*

Claude P. J. Ghez (also Neurology) (in the Center for Neurobiology & Behavior). *B.S., Geneva, 1960; M.D., Harvard, 1964*

Eric R. Kandel (University Professor) (also Psychiatry and Biochemistry & Molecular Biophysics) (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1952; M.D., New York University, 1956*

Arthur Karlin (also Eugene Higgins Professor of Neurology) (also Biochemistry & Molecular Biophysics). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*

Irving Kupferman (in Psychiatry) (in the Center for Neurobiology & Behavior). *Ph.D., Chicago, 1964*

Frederick R. Maxfield (also Pathology) (in the Center for Neurobiology & Behavior). *B.S., Union, 1971; Ph.D., Cornell, 1977*

David Schachter. *B.S., New York University, 1946; M.D., 1949*

James H. Schwartz (also Neurology) (in the Center for Neurobiology & Behavior and Psychiatry). *B.S., Columbia, 1954; M.D., New York University, 1959; Ph.D., Rockefeller, 1964*

Adjunct Professor

Shu Chien. *M.B., National University of Taiwan, 1954; Ph.D., Columbia, 1957*

Associate Professors

Martin Blank. *B.S., College of the City of New York, 1954; M.D., Columbia, 1957; Ph.D., Cambridge, 1959*

Jane Dodd (in the Center for Neurobiology & Behavior). *Ph.D.*, *Cambridge (England)*, 1979
 Martin G. Low. *Ph.D.*, *Birmingham (England)*, 1975
 David M. Stern. *M.D.*, *Montpelier (France)*, 1972; *D.Sc.*, *Paris*, 1978

Research Scientist

John D. Loike. *B.A.*, *Yeshiva*, 1971; *Ph.D.*, 1976

Adjunct Research Scientist

Herbert H. Lipowsky. *B.S.*, *Polytechnic Institute of Brooklyn*, 1966; *M.S.*, 1968; *Ph.D.*, *California*, 1975

Assistant Professors

Myles Akabas (also Medicine) (in the Center for Molecular Recognition). *B.A.*, *Cornell*, 1977; *M.D.*, *Albert Einstein*, 1982
 Yvon E. Cayre (also Medicine). *M.D.*, *Montpelier (France)*, 1972; *D.Sc.*, *Paris*, 1978
 Amy B. MacDermott (in the Center for Neurobiology & Behavior). *B.A.*, *Wells*, 1973; *Ph.D.*, *Vermont*, 1978
 Ofra Weinberger. *B.S.*, *Brooklyn*, 1976; *Ph.D.*, *Harvard*, 1981

Associate Research Scientists

Richard E. Abbott. *Ph.D.*, *Columbia*, 1972
 Joseph B. El-Khoury. *M.D.*, *American University of Beirut*, 1987
 Adriana B. Marcuzzi. *B.S.*, *National University of Rosario (Argentina)*, 1979; *Ph.D.*, *Iowa*, 1988
 Marysia A. Placzek. *B.S.*, *Edinburgh (Scotland)*, 1983; *Ph.D.*, *London*, 1987
 Lily M. Soo. *M.S.*, *Baylor*, 1964; *Ph.D.*, *Texas*, 1973

At St. Luke's-Roosevelt Hospital Center

Associate Professor of Physiological Medicine

Jahar Bhattacharya (in Medicine). *M.B.,B.S.*, *India Institute of Medicine (New Delhi)*, 1968; *M.S.*, *Oxford*, 1973; *D.Phil.*, 1976

Psychiatry

Lawrence Kolb Professor and Chairman

Herbert Pardes. *B.S.*, *Rutgers*, 1956; *M.D.*, *State University of New York (Downstate)*, 1960

At New York State Psychiatric Institute

Professors

Myron Hofer. *B.A.*, *Harvard*, 1954; *M.D.*, 1958
 Eric R. Kandel (University Professor) (also Physiology & Cellular Biophysics and Biochemistry & Molecular Biophysics) (in the Center for Neurobiology & Behavior). *B.A.*, *Harvard*, 1952; *M.D.*, *New York University*, 1956
 Herbert D. Kleber. *B.A.*, *Dartmouth*, 1956; *M.D.*, *Jefferson*, 1960
 Donald F. Klein. *B.A.*, *Colby*, 1947; *M.D.*, *State University of New York (Downstate)*, 1952

Richard Mayeux (Gertrude H. Sergievsky Professor) (also Neurology). *B.S., Oklahoma State, 1968; M.D., 1972*

David Shaffer (Irving Phillips Professor of Child Psychiatry) (also Pediatrics). *M.B., Ch.B., London, 1961; Academic Psychological Medicine, 1969*

Robert L. Spitzer. *B.A., Cornell, 1953; M.D., New York University, 1957*

Professor of Dental & Oral Surgery

Austin H. Kutscher. *B.A., New York University, 1945; D.D.S., Columbia, 1946*

Professor of Genetics & Development

Jurg Ott. *Ph.D., Zurich (Switzerland), 1967; M.S., Washington, 1972*

Professor of Medical Psychology

Irving Kupferman (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *Ph.D., Chicago, 1964*

Professor of Pathology

James E. Goldman. *B.A., Amherst, 1968; M.D., Ph.D., New York University, 1976*

Professors of Public Health

Denise Kandel (Sociomedical Sciences). *Ph.D., Columbia, 1960*

Zena A. Stein (Epidemiology) (in the Sergievsky Center). *B.A., Cape Town (South Africa), 1941; M.A., 1942; M.B., Ch.B., Witwatersrand, 1950*

Myrna M. Weissman (Epidemiology). *M.S.W., Pennsylvania, 1958; Ph.D., Yale, 1974*

Professor of Social Sciences

Bruce Dohrenwend (also Public Health) (Epidemiology). *B.A., Columbia, 1950; Ph.D., Cornell, 1955*

Professors of Clinical Psychiatry

Miron Baron. *M.D., Tel Aviv, 1972*

Hector Bird. *B.A., Michigan, 1960; M.D., Yale, 1965*

H. Donald Dunton (in Pediatrics). *M.D., Rochester, 1945*

L. Erlenmyer-Kimling (in Genetics & Development). *B.S., Columbia, 1957; Ph.D., 1960*

Ronald R. Fieve. *B.A., Wisconsin, 1952; M.D., Harvard, 1955*

Archibald R. Foley. *B.A., Queens (Canada), 1943; M.D., 1947; M.S., Columbia, 1962*

Alexander H. Glassman. *B.A., Illinois, 1956; M.D., 1958*

Jack Matthew Gorman. *B.A., Pennsylvania, 1973; M.D., Columbia, 1977*

Barry J. Gurland (John E. Borne Professor) (in the Center for Geriatrics & Gerontology). *M.B., Ch.B., Capetown, 1955*

Joséph Jaffé (in Neurological Surgery). *B.A., Columbia, 1944; M.D., Baylor, 1957*

Frederic Kass. *B.A., Harvard, 1966; M.D., Johns Hopkins, 1970*

Donald S. Kornfeld. *B.S., Franklin & Marshall, 1950; M.D., Yale, 1954*

Michael Liebowitz. *B.A., Yale, 1965; M.D., 1969*

Roger MacKinnon. *M.D., Columbia, 1950*

Sidney Malitz. *B.S., Tulane, 1943; M.D., Chicago Medical School, 1946*

John M. Oldham. *B.S., Duke, 1962; M.D., Baylor, 1967*

Ethel Person. *B.A., Chicago, 1956; M.D., New York University, 1960*

Frederic M. Quitkin. *B.A., Princeton, 1958; M.D., State University of New York (Downstate), 1962*

John D. Rainer (in Genetics & Development). *M.D., Columbia, 1951*
 Ronald O. Rieder. *B.A., Harvard, 1958; M.D., 1964*
 James H. Ryan. *B.A., Yale, 1952; M.D., Harvard, 1956*
 Michael Stone. *B.A., Cornell, 1954; M.D., 1958*
 Bernard T. Walsh. *B.A., Princeton, 1967; M.D., Harvard, 1972*

Professor of Clinical Neurobiology & Behavior

John D. Koester (in the Center for Neurobiology & Behavior). *B.A., Wooster, 1965; M.D., Columbia, 1971*

Professor of Clinical Neurochemistry

Hadassah Tamir (in Anatomy & Cell Biology). *M.S., Hebrew (Jerusalem), 1955; M.D., Israel Institute of Technology, 1959*

Professor of Clinical Neuropsychology

Nancy Sabin Wexler (in Neurology). *Ph.D., Michigan, 1970*

Professors of Clinical Psychology

Anke Ehrhardt. *Ph.D., Dusseldorf, 1969*
 Jean Endicott. *B.A., Connecticut (Storrs), 1958; M.A., Columbia, 1959; Ph.D., 1965*
 David Friedman. *B.A., Queens (New York), 1965; M.A., 1968; Ph.D., City University of New York, 1972*
 Rachel Gittelman-Klein. *B.A., College of the City of New York, 1957; Ph.D., Columbia, 1966*
 Heino F. L. Meyer-Bahlburg. *Ph.D., Dusseldorf, 1970*
 Judith Rabkin. *B.A., Wellesley, 1958; M.D., New York University, 1967; M.P.H., Columbia, 1974*
 Mary Jane Rotheram. *B.A., California (Irvine), 1971; Ph.D., Southern California, 1977*
 Harold A. Sackeim. *B.A., Columbia, 1972; B.A., M.A., Oxford (England), 1974; Ph.D., Pennsylvania, 1977*

Professor of Clinical Psychiatric Social Work

Janet B. Williams (in Psychiatry and Neurology). *B.S., Tufts, 1969; M.S., Southeastern Massachusetts, 1972; M.S.W., Columbia, 1974*

Professor of Clinical Psychopharmacology

Michael Stanley. *M. Phil., City University of New York, 1978; Ph.D., Mt. Sinai, 1979*

Professors of Clinical Public Health

Ruth Bennett (in the Center for Geriatrics & Gerontology and Psychiatry). *Ph.D., Columbia, 1962*
 Patricia R. Cohen (Epidemiology). *B.A., Hamline, 1958; Ph.D., New York University, 1968*
 Susan E. Hodge (Biostatistics). *B.A., Antioch, 1968; D.Sc., Washington, 1976*

Clinical Professors

Anne E. Bernstein. *B.A., Barnard, 1958; M.D., Albert Einstein, 1962*
 Paul A. Bradlow. *B.A., Pennsylvania, 1941; M.A., 1942; M.D., Hahnemann, 1946*
 June J. Christmas. *B.A., Vassar, 1945; M.D., Boston, 1949*
 Stanley Coen. *B.A., Columbia, 1958; M.D., 1962*

Richard Druss. *B.A., Yale, 1955; M.D., Columbia, 1959*

Richard A. Gardner. *B.A., Columbia, 1952; M.D., State University of New York (Brooklyn), 1956*

Willard Gaylin. *B.A., Harvard, 1947; M.D., Case Western Reserve, 1951*

Robert Glick. *B.A., Yale, 1962; M.D., Columbia, 1966*

Arthur Green (in Pediatrics). *B.A., Rochester, 1951; M.D., Amsterdam, 1955*

Clarice J. Kestenbaum. *B.A., California (Los Angeles), 1950; M.D., 1960*

Frederick M. Lane. *A.B., Cornell, 1949; M.D., Yale, 1953*

Alexander N. Levay. *B.A., Wesleyan, 1953; M.D., Rochester, 1957*

Donald Meyers. *B.S., Franklin & Marshall, 1946; M.D., Jefferson, 1950*

Helen Myers. *B.A., Hunter, 1945; M.D., Columbia, 1957*

Lewis Opler. *B.A., Harvard, 1969; Ph.D., Albert Einstein, 1975; M.D., 1976*

Henry Spitz. *B.A., Lafayette (Pennsylvania), 1961; M.D., New York Medical College, 1965*

Ralph N. Wharton. *B.A., Harvard, 1953; M.D., Columbia, 1957*

Adjunct Research Scientists

Gloria Canino. *M.A., Puerto Rico, 1969; Ph.D., Temple, 1974*

Itzhak Lévav. *M.D., Buenos Aires, 1962; M.S., Columbia, 1969*

Associate Professor of Genetics & Development

T. Conrad Gilliam. *Ph.D., Missouri, 1981*

Associate Professor of Medical Psychology

Jacques Rutschmann. *D.Sc., Geneva, 1956*

Associate Professor of Neuropathology

Mavis Kaufman. *B.A., Radcliffe, 1941; M.D., New York Medical, 1944*

Associate Professors of Clinical Psychiatry

Amiram Barkai. *M.S., Hebrew (Jerusalem), 1963; Ph.D., 1970*

Jerry Finkel (also Medicine). *B.A., Columbia, 1957; M.D., 1961*

David V. Forrest. *B.A., Princeton, 1960; M.D., Columbia, 1964*

Mindy Fullilove (also Public Health) (Sociomedical Sciences). *B.A., Bryn Mawr, 1971; M.S., Columbia, 1974; M.D., 1978*

Abby Joy Fyer. *B.A., Reed, 1969; M.D., New York University, 1973*

Laurence L. Greenhill. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*

Wilma M. Harrison. *B.A., Barnard, 1960; M.D., New York Medical College, 1966*

Eric Hollander. *B.A., Brandeis, 1978; M.D., State University of New York (Downstate), 1982*

Steven E. Hyler. *B.A., New York University, 1971; M.D., New York Medical College, 1975*

Charles A. Kaufmann. *B.S., Massachusetts Institute of Technology, 1971; M.D., Columbia, 1977*

Patrick J. McGrath, Jr. *B.S., Seton Hall, 1970; M.D., Columbia, 1974*

Philip R. Muskin. *B.A., Cornell, 1969; M.D., New York Medical College, 1974*

Steven Paul Roose. *B.A., Harvard, 1970; M.D., Mt. Sinai, 1974*

L. Mark Russakoff. *B.A., Clark, 1966; M.D., State University of New York (Downstate), 1971*

Jonathan M. Silver. *B.A., Duke, 1975; M.D., Albert Einstein, 1979*

Andrew Skodol. *B.A., Yale, 1967; M.D., Pennsylvania, 1971*

Jonathan W. Stewart. *B.A., Swarthmore, 1967; M.D., Yale, 1971*

Associate Professor of Clinical Biochemical Psychiatry

George Alexander. *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*

Associate Professors of Clinical Neurobiology & Behavior

Robert D. Hawkins. *B.A., Stanford, 1968; M.A., California (San Diego), 1969; Ph.D., 1973*
 Samuel M. Schacher (in Anatomy & Cell Biology). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*

Associate Professors of Clinical Neuropsychology

Isak Prohovnik (in Neurology and Radiology). *M.S., Lund (Sweden), 1980; Ph.D., 1981*
 Yaakov Stern (in Neurology and the Sergievsky Center). *B.A., Yonkers (New York), 1975; M.A., City University of New York, 1982; Ph.D., 1983*

Associate Professors of Clinical Psychology

Gerard E. Bruder. *B.A., Queens, 1966; M.A., 1968; Ph.D., City University of New York, 1971*
 W. Crawford Clark. *Ph.D., Michigan, 1958*
 Robert Dworkin (in Anesthesiology). *B.A., Pennsylvania, 1971; Ph.D., Harvard, 1977*
 Stephen E. Karpiak. *Ph.D., Fordham, 1972*
 Salvatore Mannuzza. *Ph.D., City University of New York, 1982*
 Michael M. Myers. *B.A., Connecticut (Storrs), 1971; M.S., 1974; Ph.D., 1976*
 Richard P. Sloan. *B.S., Union (Schenectady), 1970; M.A., New School, 1974; Ph.D., 1978*
 Michael Terman. *B.A., Columbia, 1964; M.S., Brown, 1966; Ph.D., 1968*

Associate Professor of Clinical Psychopharmacology

Thomas Cooper. *M.A., Fairleigh Dickinson, 1970*

Associate Professor of Clinical Public Health

Madelyn S. Gould (Epidemiology). *B.S., City University of New York (Brooklyn), 1972; M.A., Princeton, 1974; M.P.H., Columbia, 1976; Ph.D., 1980*

Associate Clinical Professors

Stan David Arkow. *B.S., State University of New York (Stony Brook), 1973; M.D., Columbia, 1977*
 Raymond Bernick. *B.S., Dalhousie, 1956; M.D., 1961*
 Stanley Bone. *B.S., Massachusetts Institute of Technology, 1970; M.D., Mt. Sinai, 1974*
 Ian Alberto Canino. *B.S., Georgetown, 1966; M.D., Puerto Rico, 1970*
 William J. Chambers. *B.A., Princeton, 1967; M.D., Tufts, 1972*
 Francine Cournos. *B.S., City College of New York, 1967; M.D., New York University, 1971*
 Paula Eagle. *B.A., California (Berkeley), 1974; M.D., New York University, 1978*
 Gloria Faretra. *M.D., Georgetown, 1952*
 Gerald I. Fogel. *M.D., Michigan, 1962*
 Rodman Gilder, Jr. *M.D., Columbia, 1944*
 Robert Goldstein. *M.D., Chicago, 1965; J.D., Columbia, 1984*
 Stanley Heller. *B.A., Yale, 1956; M.D., Columbia, 1960*
 Ewald Horwath. *B.A., Chicago, 1975; M.D., 1979*
 David Alan Kahn. *B.A., Haverford, 1975; M.D., Columbia, 1979*
 Lila J. Kalinich. *B.A., Northwestern, 1966; M.D., 1969*
 Stuart L. Kaplan. *B.A., George Washington, 1961; M.D., 1965*
 Neil B. Kavey. *B.A., Princeton, 1965; M.D., Columbia, 1969*
 Thomas Kranjac. *B.A., New York University, 1970; M.D., New York Medical College, 1975*
 Burton A. Lerner. *B.A., Columbia, 1953; M.D., 1957*
 Stephen Levitan. *B.A., New York University, 1961; M.D., State University of New York (Buffalo), 1965*
 Alan M. Levy. *B.A., Cornell, 1947; M.A., 1948; M.D., New York Medical College, 1954*

- Owen William Lewis. *B.A., Pennsylvania, 1972; M.D., Mt. Sinai, 1976*
 Eric Marcus (also Social Medicine). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*
 William McFarlane. *B.A., Earlham, 1966; M.D., Columbia, 1970*
 Michael Milano. *B.A., Harvard, 1960; M.D., Albany, 1964*
 John F. O'Connor. *B.S., Columbia, 1948; M.D., State University of New York (Downstate), 1952*
 David Douglas Olds. *B.A., Yale, 1960; M.D., Columbia, 1981*
 Seymour Post. *M.D., New York University, 1947*
 Eleanor Schuker. *B.A., Swarthmore, 1961; M.D., Columbia, 1965*
 Daniel Shapiro. *M.D., Illinois, 1945*
 Leonard M. Sheehy. *B.A., Harvard, 1960; M.D., McGill, 1968*
 Josef H. Weissberg. *M.D., Albany, 1952*
 Daniel T. Williams. *B.A., Columbia, 1965; M.D., Cornell, 1969*

Associate Clinical Professors of Medical Psychology

- Gordon G. Ball. *B.A., London, 1956; Ph.D., Stanford, 1963*
 Sandra L. Forquer. *B.A., Chatham, 1965; M.Ed., Pittsburgh, 1972; Ph.D., 1977*
 Kenneth Frank. *B.A., New York University, 1961; M.S., Columbia, 1964; Ph.D., 1967*
 Dolores Kreisman. *B.A., Barnard, 1953; Ph.D., Columbia, 1969*
 Wilma Rosen. *B.A., Cedar Crest (Pennsylvania), 1967; M.S., Clark, 1969; M.D., 1973*
 Gail A. Wasserman. *B.A., Pennsylvania, 1967; M.D., Illinois, 1970; Ph.D., City University of New York, 1977*

Associate Clinical Professor of Neuropathology

- Nicholas J. Willson. *B.S., St. Peter's, 1959; M.D., Seton Hall, 1963*

Associate Clinical Professor of Social Sciences

- Carol L. M. Caton (in Public Health) (Sociomedical Sciences). *B.S., Columbia, 1962; M.S.N., Yale, 1965; Ph.D., 1969*

Research Scientist

- Morton Levitt. *M.S., George Washington, 1959; Ph.D., Howard, 1966*

Assistant Professors

- Richard W. Foltin. *B.A., Franklin and Marshall, 1978; Ph.D., Chicago, 1983*
 Peter A. Shapiro (Irving Assistant Professor). *B.A., Princeton, 1976; M.D., Columbia, 1980*

Assistant Professor of Neurogenetics

- Marcelo Soares. *B.S., M.A., Federal University of Rio De Janeiro (Brazil), 1982; Ph.D., Columbia, 1986*

Assistant Professor of Pathology

- Andrew J. Dwork. *B.A., Columbia, 1973; M.D., College of Medicine and Dentistry of New Jersey, 1977*

Assistant Professor of Psychiatric Genetics

- Linda M. Brzustowics. *B.A., Harvard, 1982; M.D., Columbia, 1987*

Assistant Professor of Public Health

Karen G. Raphael (Epidemiology). B.A., *Hofstra*, 1977; M.A., 1982; Ph.D., 1984

Adjunct Assistant Professor

Catharine M. Napolitano. B.A., *Newton*, 1964; M.A., *Fairleigh Dickinson*, 1981; Ph.D., *Columbia*, 1984

Adjunct Assistant Professor of Anatomy & Cell Biology

Craig H. Bailey (in the Center for Neurobiology & Behavior). B.A., *Lehigh*, 1967; M.S., 1969; Ph.D., 1973

Assistant Professors of Clinical Psychiatry

Richard P. Brown. M.D., *Columbia*, 1977

Lee Steven Cohen. B.S., *The City College of New York*, 1980; M.D., *State University of New York (Stony Brook)*, 1982

Davangere P. Devanand. M.B., B.S., *Christian (India)*, 1978

Michael J. Devlin. B.A., *Princeton*, 1978; M.D., *Columbia*, 1982

Jennifer I. Downey. B.A., *Harvard*, 1967; M.A., *California (Berkeley)*, 1968; M.D., *Case Western Reserve*, 1976

Michael B. First. B.S.E., *Princeton*, 1978; M.S., M.D., *Pittsburgh*, 1983

George R. Gwirtz. B.A., *Columbia*, 1979; M.D., 1984

Arthur E. Gillman. B.S., *Vermont*, 1947; M.D., *New York Medical College*, 1950

Kenneth Greenspan. M.D., *Albert Einstein*, 1963

Frances R. Levin. B.S., *Brown*, 1981; M.D., *Cornell*, 1985

Dolores Malaspina. B.A., *Boston*, 1974; M.S., *Rutgers*, 1978; M.D., *College of Medicine and Dentistry of New Jersey*, 1983

John Martin (in the Center for Neurobiology & Behavior). B.A., *Rhode Island*, 1973; M.A., *Columbia*, 1974; Ph.D., 1978

Edward V. Nunes. B.A., *Dartmouth*, 1977; M.D., *Connecticut*, 1981

William P. Owen. B.A., *Louisville*, 1974; M.D., 1978

Laszlo A. Papp. M.A., *Political Sciences (Hungary)*, 1978; M.D., *Semmelweis School of Medicine (Hungary)*, 1981

James B. Parsons. B.A., *Reed*, 1975; Ph.D., *Rockefeller*, 1981; M.D., *Miami*, 1986

Joan Prudic. B.S., *Michigan*, 1973; M.D., 1977

Stephen G. Rayport (in Anatomy & Cell Biology and in the Center for Neurobiology & Behavior). B.A., *Harvard*, 1975; Ph.D., *Columbia*, 1981; M.D., 1982

Franklin R. Schneier. B.S., *Yale*, 1979; M.D., *Cornell*, 1983

Boris M. Segal. M.D., *First Moscow Medical School*, 1951; Ph.D., *Moscow Institute*, 1963

Lawrence Sharpe. M.B., B.S., *London*, 1954

Ezra A. Susser. B.A., *Columbia*, 1974; M.D., M.P.H., 1982

Heather J. Walter. B.A., *Pacific Union*, 1971; M.D., *Loma Linda*, 1974

Agnes H. Whitaker (in Sergievsky Center). B.A., *Antioch*, 1972; M.D., *Rutgers*, 1976

Ronald M. Winchel. B.A., *Columbia*, 1975; M.A., M.D., *Tufts*, 1979

Assistant Professor of Clinical Behavioral Biology

Suzette Evans. B.S., *Syracuse*, 1981; Ph.D., *Chicago*, 1987; M.D., *Johns Hopkins*, 1990

Assistant Professors of Clinical Psychology

Xavier Amador. B.A., *State University of New York (Purchase)*, 1982; M.A., *New York University*, 1987; Ph.D., 1989

Susan Bram. B.A., *New York University*, 1969

- Melinda Broman. B.A., *Cornell*, 1967; M.A., *Columbia*, 1969; Ph.D., *Rutgers*, 1977
 Susan E. Carden. B.A., *Fordham*, 1979; M.A., *New York University*, 1984; Ph.D., 1988
 Edward Scott Charles. B.A., *City University of New York*, 1965; M.A., 1968; Ph.D.,
New School for Social Research, 1971
 William P. Fifer. B.S., *Georgetown*, 1970; M.A., *North Carolina (Greensboro)*, 1976; Ph.D.,
 1980
 Richard W. Gaines. B.A., *Middlebury*, 1969; Ph.D., *New York University*, 1985
 Ethan Gorenstein. B.A., *McGill*, 1975; Ph.D., *Indiana*, 1981
 Rita Haggerty. B.A., *Fordham*, 1970; Ph.D., *State University of New York (Stony Brook)*, 1976
 Helen Hanesian. B.S., *State University of New York (Buffalo)*, 1953; M.A., *Columbia*, 1961;
 Ed.D., 1966
 Jill M. Harkavy-Friedman. B.A., *Pennsylvania*, 1978; M.A., *Florida*, 1981; Ph.D., 1984
 Donald E. Hutchings (also in Pediatrics). Ph.D., *Columbia*, 1965
 Jesse Bernard Levine. Ph.D., *George Washington*, 1976
 James R. Moeller. B.A., *Stanford*, 1966; M.A., *Michigan*, 1974; Ph.D., 1976
 Laura H. Mufson. B.A., *Princeton*, 1983; Ph.D., *Emory*, 1988
 John C. Piacentini. B.S., *Oregon*, 1980; M.S., *Georgia*, 1984; Ph.D., 1986
 Michael Seth Quittman. B.A., *Queens (New York)*, 1968; Ph.D., *Purdue*, 1974
 Margaret Rosario. B.A., *Princeton*, 1975; M.A., Ph.D., *New York University*, 1985
 Sergio Rothstein. B.A., *Yeshiva*, 1965; Ph.D., 1973
 Harry N. Shair. B.A., *Columbia*, 1975; Ph.D., *City University of New York (Hunter)*, 1986
 Cornelis Stokman. B.A., *Nijmegen (Holland)*, 1962; M.A., *Columbia*, 1964; Ph.D., 1967
 Brandon G. Yongue. B.A., *Florida*, 1977; Ph.D., *Illinois*, 1985
 Jeffrey Young. B.A., *Yale*, 1972; Ph.D., *Pennsylvania*, 1978

Assistant Professors of Clinical Psychiatric Social Work

- Ruth Corn. B.A., *New York University*, 1955; M.S.W., 1968
 Rosa M. Gil. B.A., *Oriente (Cuba)*, 1961; M.S.W., *Fordham*, 1968; D.S.W., *Adelphi*, 1980
 Barbara Von Bulow. B.A., *Duke*, 1964; M.S.W., *Columbia*, 1968

Assistant Professors of Clinical Public Health

- Robert E. Fullilove (Sociomedical Sciences and Health Administration). B.A., *Colgate*, 1966;
 M.S., *Syracuse*, 1972; Ed.D., *Columbia*, 1984
 Deborah S. Hasin (Epidemiology). B.A., *California (Los Angeles)*, 1972; M.S., *Columbia*,
 1980; M.Phil., Ph.D., 1986
 Christina Hoven (Epidemiology). B.A., *Lindenwood*, 1966; M.A., *Missouri*, 1968; M.P.H.,
Columbia, 1983; M.S., 1987; Dr.P.H., 1988
 John A. Toner (in the Center for the Study of Geriatrics & Gerontology). Ed.D., *Columbia*,
 1980
 Veronica J. Vieland (Biostatistics). B.A., *Barnard*, 1979; M.A., *Columbia*, 1981; M. Phil.,
 1984; Ph.D., 1986; M.S., 1988
 Priya J. Wickramaratne (Biostatistics). B.S., *London*, 1968; M.S., *Stanford*, 1970; Ph.D., *Yale*,
 1984

Assistant Professors of Clinical Social Sciences

- Alexander Askenazy. Ph.D., *Columbia*, 1962
 Muriel Hammer. Ph.D., *Columbia*, 1961

Adjunct Assistant Professor of Clinical Psychology

- Stephen C. Brake. Ph.D., *Texas*, 1976

Assistant Clinical Professors

- Geary Edward Ahern. B.A., *Fordham*, 1967; M.D., *State University of New York (Downstate)*, 1975
- Morton J. Aronson. B.A., *Temple*, 1944; M.D., 1947
- Athanasia Balkoura. M.D., *Athens*, 1960
- John Joseph Barsa. B.S., *Massachusetts Institute of Technology*, 1973; M.D., *Columbia*, 1977
- Leah Beck. M.D., *Women's Medical College of Pennsylvania*, 1943
- Robinette Bell. B.A., *Smith College*, 1951; M.D., *Columbia*, 1962
- Carol A. Bernstein. B.A., *Bryn Mawr*, 1969; M.A., *Antioch*, 1971; M.D., *Columbia*, 1980
- Ronald Brady. B.S., *Queens*, 1961; M.D., *Temple*, 1967
- Edward N. Brennan. B.S., *Trinity (Hartford)*, 1951; M.D., *Yale*, 1955
- Richard Brockman. B.A., *Williams*, 1969; M.D., *New York Medical College*, 1975
- A. Alexis Brosen. B.A., *City College of New York*, 1973; M.D., *New York University*, 1977
- Sydney C. Bush. M.D., *Dartmouth*, 1976
- Paul F. Califano. B.A., *Adelphi*, 1950; M.D., *State University of New York (Downstate)*, 1954
- Eve Caligor. B.A., *Harvard*, 1978; M.D., 1982
- Robert J. Campbell. B.A., *Wisconsin*, 1944; M.D., *Columbia*, 1948
- Raphael B. Campeas. B.A., *Touro (New York)*, 1975; M.D., *Mt. Sinai*, 1979
- Janel S. Carino. B.A., *Occidental (California)*, 1964; M.A., *Columbia*, 1970; M.D., *Albert Einstein*, 1976
- Harvey R. Chertoff. B.A., *Columbia*, 1962; M.D., *Albert Einstein*, 1966
- Leslie L. Citrome. M.D., *McGill*, 1983
- Susan R. Clarvit. B.A., *State University of New York (Binghamton)*, 1976; M.D., *Albert Einstein*, 1984
- Daniel Elliot Cohen. B.A., *Columbia*, 1967; M.D., 1971
- Frances Cohen. B.A., *Harvard*, 1971; M.D., *Columbia*, 1975
- Max P. Cohen. M.D., *New York Medical College*, 1947
- Louise Coleman. M.D., *Southern California*, 1948
- Jeremy Coplan. M.B., Ch.B., *Witwatersrand (South Africa)*, 1983
- Clare E. Cosentino. B.A., *State University of New York (Purchase)*, 1981; M.A., *New York University*, 1987; Ph.D., 1991
- Janice L. Cutler. B.A., *Princeton*, 1979; M.D., *Yale*, 1983
- Zira De Fries. M.D., *New York Medical College*, 1942
- Susan M. Deakins. B.A., *Northampton*, 1958; M.D., *Columbia*, 1963
- Lisa Deutscher. B.A., *Sarah Lawrence*, 1977; M.D., *State University of New York (Brooklyn)*, 1984
- Leonard Diamond. B.A., *Tulane*, 1949; M.D., *State University of New York (Downstate)*, 1973
- Carolyn Jory Douglas. B.A., *Princeton*, 1976; M.D., *Harvard*, 1980
- Robert M. Elvove. B.A., *Michigan*, 1962; M.D., *Chicago*, 1966
- Maureen D. Empfield. M.D., *Albert Einstein*, 1977
- Charles F. Entelis. M.D., *Virginia*, 1974
- Katherine Falk. B.A., *Barnard*, 1966; M.D., *Mt. Sinai*, 1970
- Robert E. Feinstein. B.A., *Michigan*, 1974; M.D., *New York University*, 1978
- Tovah Feldhammer. B.S., *Bologna (Italy)*, 1971; M.D., *Technion-Faculty of Medicine (Israel)*, 1975
- Alan D. Felix. B.A., *Haverford*, 1979; M.D., *Columbia*, 1983
- Jane S. Ferber. B.A., *Barnard*, 1957; M.D., *Columbia*, 1961
- Sharon L. Fingeroth. B.A., *City University of New York*, 1973; M.D., *Albert Einstein*, 1984
- William A. Fisher. B.A., *Yale*, 1976; M.D., *Columbia*, 1980
- James W. Flax. M.D., *Minnesota*, 1974; M.P.H., *Columbia*, 1980
- Bruce Forester. B.A., *Dartmouth*, 1961; M.D., *Columbia*, 1965
- Eugene A. Friedberg. M.D., *State University of New York (Buffalo)*, 1958
- Cathy Jayne Friedman. M.D., *State University of New York (Downstate)*, 1981
- Lee R. Gardner. B.A., *Barnard*, 1955; M.D., *Columbia*, 1959
- Janice L. Gelfand. B.A., *Yale*, 1980; M.D., *New York University*, 1985

- Iona H. Ginsburg (in Dermatology). B.A., *Vassar*, 1953; M.D., *Columbia*, 1957
- David M. Gottesman. B.S., *Wesleyan*, 1962; M.D., *Albany*, 1966
- Flemming G. Graae. B.A., *Rutgers*, 1971; M.A., *Indiana*, 1973; M.D., *St. George (Grenada)*, 1983
- Melvyn L. Grossman. B.A., *New York University*, 1955; M.D., *Geneva (Switzerland)*, 1960
- Elisabeth B. Guthrie (also Pediatrics). B.A., *Sarah Lawrence*, 1976; M.D., *Albert Einstein*, 1981
- Robin M. Hamilton. B.A., *Princeton*, 1977; M.D., *Pritzker*, 1982
- Deborah S. Hamm. B.A., B.M., *Oberlin*, 1975; M.D., *Baylor*, 1980
- Deena R. Harris. B.A., *Simmons*, 1973; M.D., *Case Western Reserve*, 1980
- Julie A. Hatterer. B.A., *Princeton*, 1979; M.D., *Cornell*, 1983
- Myra S. Hatterer. B.A., *New York University*, 1955; M.D., *New York Medical College*, 1959
- Gregory Heimarc. B.A., *St. Olaf (Minnesota)*, 1956; M.D., *Columbia*, 1960
- Michelle L. Hirsch. B.S., *City College of New York*, 1968; M.D., *State University of New York (Syracuse)*, 1973
- Joel S. Hoffman. B.A., *Harvard*, 1959; M.D., *Columbia*, 1962
- Andrew Hornstein. B.A., *Case Western Reserve*, 1969; M.D., *Albert Einstein*, 1972
- Charita C. Hoyle-Parr. B.S., *Maryland*, 1976; M.D., 1980
- Gerald I. Hurowitz. B.A., *Yale*, 1979; M.D., *Jefferson*, 1984
- Wynn K. Jackson. B.A., *Oklahoma*, 1970; M.D., *Chicago*, 1979
- Roberta Jaeger. B.A., *Barnard*, 1963; M.D., *Columbia*, 1966
- David Jaffe. M.D., *Jefferson*, 1950
- Christopher M. Johannet. B.A., *Sarah Lawrence*, 1977; M.D., *Columbia*, 1986
- Carlos M. Jusino-Berrios. B.S., *Puerto Rico (San Juan)*, 1977; M.D., 1981
- Sherry P. Katz-Bearnot. B.A., *Barnard*, 1973; M.D., *Mt. Sinai*, 1977
- Bonnie Kaufman. M.D., *Columbia*, 1975
- H. David Kellman. B.A., *Stanford*, 1974; M.D., *Columbia*, 1981
- Jules D. Kerman. M.D., *Albert Einstein*, 1972; Ph.D., *Yeshiva*, 1977
- Robert Michael Kertzner. B.A., *Cornell*, 1974; M.D., *Columbia*, 1978
- Ralph Klein. B.A., *Hamilton*, 1966; M.D., *New York University*, 1970
- Stuart B. Kleinman. B.A., *Lehigh*, 1979; M.D., 1983
- Harold S. Koplewicz. B.S., *Maryland*, 1973; M.D., *Albert Einstein*, 1978
- Elliot Mark Kranzler. B.A., *Johns Hopkins*, 1973; M.D., *Albert Einstein*, 1978
- Ingeborg M. Krompholz. B.A., *Johns Hopkins*, 1981; M.D., *George Washington*, 1985
- Leo Kron. M.D., *British Columbia*, 1971
- Richard B. Krueger. B.A., *Albion*, 1967; M.D., *Harvard*, 1977
- Lucy Bergson La Farge. B.A., *Radcliffe*, 1969; M.D., *Albert Einstein*, 1976
- Peter Laderman. B.S., *College of the City of New York*, 1940; M.D., *New York Medical College*, 1947
- Leon Lefter. B.A., *New York University*, 1941; M.D., *Lausanne*, 1952
- Naomi Leiter. B.A., *Brooklyn*, 1956; M.D., *State University of New York (Buffalo)*, 1960
- Jon A. Levenson. B.A., *Pennsylvania*, 1979; M.D., *Hahnemann*, 1984
- Andrew Paul Levin. M.D., *Pennsylvania*, 1980
- David Y. Levine. M.D., *New York University*, 1961
- Jill R. Linder. B.A., *Smith*, 1979; M.D., *State University of New York (Buffalo)*, 1983
- David Charles Lindy. B.A., *Pennsylvania*, 1974; M.D., 1981
- Louis S. Linfield. B.A., *Harvard*, 1977; M.D., *Columbia*, 1983
- Barbara Ann Liskin (also Pediatrics). M.D., *Columbia*, 1979
- Laurence S. Lorefice. B.A., *Johns Hopkins*, 1971; M.P.H., *Harvard*, 1979; M.D., *Pennsylvania*, 1975
- Andrew C. Lotterman. B.A., *Yale*, 1972; M.D., *Mt. Sinai*, 1976
- Robert D. McMullen. B.A., *Washington & Lee*, 1969; M.D. *Georgetown*, 1976
- Lisa Ann Mellman. B.A., *Colorado (Boulder)*, 1976; M.D., *Case Western Reserve*, 1981
- Frederick Mendelsohn. B.A., *Harvard*, 1954; M.D., *Stanford*, 1958
- Robert J. Mitchell. B.A., *Harvard*, 1972; M.S., 1973; M.D., *Yale*, 1977
- Joanne Moore. M.D., *Harvard*, 1982

- Donna Moreau. B.A., *State University of New York (Stony Brook)*, 1971; M.D., 1980
- Craig M. Morris. B.S., *City College of New York*, 1966; M.D., *Albert Einstein*, 1970
- Serge A. Mosovich. M.D., *Facultad de Medicina (Buenos Aires)*, 1969; M.P.H., *Columbia*, 1989
- Kristina H. Muenzenmaier. B.S., *Mainz (West Germany)*, 1971; M.D., *Munich*, 1976
- Joseph C. Napoli. B.A., *Fordham*, 1968; M.D., *Georgetown*, 1972
- Roger S. Nathaniel. B.S., *Massachusetts Institute of Technology*, 1976; M.D., *Cornell*, 1980
- Maria A. Oquendo. B.S., *Tufts*, 1980; M.D., *Columbia*, 1984
- Louis Padovano. B.S., *Georgetown*, 1952; M.D., 1956
- Patricio R. Paez. M.D., *Chile*, 1972
- David Peretz. B.A., *College of the City of New York*, 1954; M.A., *Columbia*, 1955; M.D., *New York University*, 1959
- Cynthia Perry. B.A., *Pennsylvania*, 1978; M.D., *Mt. Sinai*, 1982
- Daniel Pilowsky. M.D., *Buenos Aires (Argentina)*, 1976
- Jeffrey M. Pines. B.A., *Columbia*, 1969; M.D., 1973
- Patricia Powell. M.D., *Yale*, 1987
- Leslie L. Powers. M.D., *Dartmouth*, 1975
- Jules M. Ranz. M.D., *New York University*, 1966
- Jeffrey S. Rosecan. B.A., *Columbia*, 1974; M.D., 1978
- Ronnie G. Rosenberg. B.A., *State University of New York (Stony Brook)*, 1978; M.D., *Yale*, 1984
- Barbara R. Rosenfeld. M.D., *Medical College of Pennsylvania*, 1965
- Jane L. Rosenthal. B.A., *Michigan*, 1977; M.D., *George Washington*, 1986
- Lyle E. Rosnick. B.A., *Columbia*, 1970; M.D., 1974
- Boris Rubinstein. (also Pediatrics) B.A., *Colegio Israelita (Mexico City)*, 1961; M.D., *Nacional (Mexico)*, 1970; M.P.H., *Harvard*, 1978
- J. Arturo Sanchez-Lacay. M.D., *Autonomus University of Santo Domingo*, 1978
- Diana Pardew Sandberg. B.A., *Rensselaer Polytechnic Institute*, 1981; M.D., *Albany*, 1981
- M. Bruce Sarlin. B.A., *Tulane*, 1953; M.D., 1957
- Pellegrino J. Sarti. B.S., *Fordham*, 1970; M.D., *Bologna*, 1977
- Murray David Schane. B.A., *Wayne State*, 1961; M.D., *Stanford*, 1968
- Holly A. Schneier. B.A., *Brandeis*, 1981; M.D., *Tufts*, 1985
- Ann P. Sellew. B.A., *Kenyon (Ohio)*, 1972; M.D., *State University of New York (Buffalo)*, 1982
- Stephen R. Setterberg. B.A., *Minnesota*, 1980; M.D., 1984
- Lawrence Shaderowsky. B.A., *Chicago*, 1956; M.D., *New York Medical College*, 1960
- Edward M. Shelley. B.A., *Columbia*, 1960; M.D., *State University of New York (Downstate)*, 1958
- Charles Siegal. B.A., *New York University*, 1954; M.D., *State University of New York (Downstate)*, 1958
- Michael A. Silver. B.A., *State University of New York (Buffalo)*, 1975; M.Ed., 1976; M.D., *State University of New York (Downstate)*, 1984
- Merianne B. Singer. B.A., *Yale*, 1980; M.D., *Columbia*, 1984
- Mark F. Sorensen. B.A., *Duke*, 1980; M.D., *Columbia*, 1984
- Frieda H. Spady. B.S., *Columbia*, 1963; M.D., *New York Medical College*, 1967
- H. David Stein. B.A., *Brandeis*, 1975; M.D., *Columbia*, 1979
- Gloria Jean Stern. B.A., *Barnard*, 1961; M.D., *New York University*, 1976
- Laurie Ann Stevens. B.A., *Yale*, 1975; M.D., *Columbia*, 1979
- Ellen M. Stevenson. M.D., *Columbia*, 1982
- David H. Strauss. B.S., *State University of New York (Binghamton)*, 1981; M.D., *Cornell*, 1985
- Nancy Kaplan Tancer. B.A., *Cornell*, 1979; M.D., *College of Medicine and Dentistry of New Jersey*, 1984
- Nina Toshav. B.A., *Reed*, 1967; M.D., *Rochester*, 1972
- Eleanor M. Townsend. B.A., *Sarah Lawrence*, 1957; M.D., *Columbia*, 1961
- Brian Trappier. M.B., Ch.B., *Witwatersrand (South Africa)*, 1974
- Ann R. Turkel. B.A., *Barnard*, 1947; M.D., *Albany*, 1952
- Martin Weiler. B.A., *Syracuse*, 1949; M.A., *Columbia*, 1951; M.D., *Chicago*, 1954

Steven L. Weinstein. B.A., *Brooklyn*, 1962; M.D., *Chicago*, 1966

Lillian R. Wong-Ryan. B.S., *Fairleigh Dickinson*, 1979; M.D., *Universidad Central del Este (Dominican Republic)*, 1983

Richard B. Zimmer. B.A., *Brandeis*, 1971; M.D., *Albert Einstein*, 1974

Assistant Clinical Professors of Medical Psychology

Phillip Adams. Ph.D., *Georgia State*, 1986

Aryeh Anavi. Ph.D., *Boston*, 1963

Elizabeth W. Auricchio. Ph.D., *Fordham*, 1972

Susan P. Brinkworth. B.A., *Reading (Berkshire, England)*, 1973; M.A., *Yeshiva*, 1980; Ph.D., 1983

Joan Busner. B.A., *New College (Sarasota Florida)*, 1978; M.A., *Adelphi*, 1981; Ph.D., 1984

Martha Davis. B.A., *Rochester*, 1963; M.S., *Albert Einstein*, 1967; Ph.D., 1973

Victor De La Cancela. B.A., *City College of New York*, 1974; M.Phil., 1979; Ph.D., 1981

Theresa M. Exner. B.A., *La Salle (Philadelphia)*, 1977; Ph.D., *Connecticut*, 1986

Walter Isaac Gadlin. Ph.D., *New York University*, 1968

Raymond R. Goetz. Ph.D., *Yeshiva*, 1983

Kenneth Gorfinkle. B.A., *Brandeis*, 1976; Ph.D., *New School for Social Research*, 1991

Meg S. Kaplan. B.A., *New York University*, 1970; M.A., 1972; Ph.D., 1985

Letty Pogul Munz. Ph.D., *Columbia*, 1974

Eric G. Redlener. M.A., *Pennsylvania*, 1981; Ph.D., *Hofstra*, 1985

Robert S. Schachter. Ed.D., *Boston*, 1975

Dianne E. Schechter. B.A., *Rutgers*, 1977; M.S., 1981; Ph.D., 1987

Elizabeth Squires-Wheeler. B.A., *Pennsylvania*, 1967; Ph.D., *Columbia*, 1986

Susan M. Sussmann. B.A., *Cornell*, 1976; Ph.D., *American (Washington)*, 1983

Assistant Clinical Professor of Pediatric Psychology

Jeannette J. Jansky. M.S., *College of the City of New York*, 1960; Ph.D., *Columbia*, 1970

Assistant Clinical Professor of Pediatrics

Jane Eliot Fried. B.A., *Vassar*, 1964; M.D., *Columbia*, 1970

Assistant Clinical Professors of Psychology

Paul M. Berger-Gross. B.S., *Massachusetts*, 1977; Ph.D., *City University of New York*, 1985

Mark Gerald. B.A., *City College of New York*, 1966; M.A., *Columbia*, 1975; M.Ed., 1976; Ph.D., *New York University*, 1984

Stephanie Kasen. B.A., *Brooklyn*, 1976; M.S., 1978; Ph.D., *Fordham*, 1987

Paul M. Ramirez. B.A., *Lehman*, 1973; M.A., *New York University*, 1976; M.A., *City College of New York*, 1980; Ph.D., 1989

Robert I. Watson, Jr. B.A., *Wesleyan*, 1969; M.D., Ph.D., *Harvard*, 1974

Assistant Clinical Professors of Psychiatric Social Work

Carla Daichman. B.A., *New York University*, 1969; M.S.W., *Columbia*, 1971

Miriam Gibbon. B.A., *Antioch*, 1954; M.S.W., *Columbia*, 1957

Betty Jeanne Kass. B.A., *Goucher*, 1969; M.S., *Columbia*, 1973

Bobba Jean Moody. B.A., *Hunter*, 1964; M.S.W., *Fordham*, 1968

Nettie Terestman. B.A., *Hunter*, 1938; M.S., *Columbia*, 1940; D.S.W., 1963

Jane A. Waters. B.A., *Wellesley*, 1967; M.S., *Simmons*, 1972

Assistant Clinical Professor of Public Health

Elie S. Valencia (Sociomedical Sciences). B.A., *Columbia*, 1980; M.A., *State University of New York (Binghamton)*, 1982; J.D., *Rutgers*, 1989

Associate Research Scientists

- Samuel W. Anderson. *B.A., George Washington, 1958; Ph.D., Harvard, 1965*
 David P. Birkett. *M.B., Ch.B., South Wales, 1957*
 Richard L. Blumenthal. *B.A., Cornell, 1947; M.A., New School for Social Research, 1951; Ph.D., New York University, 1961*
 Lirio S. Covey. *Ph.D., City University of New York, 1983*
 Cynthia L. Crown. *B.A., Maryland, 1978; M.A., 1980; Ph.D., Delaware, 1984*
 Richard Feldman. *Ph.D., Columbia, 1966*
 Robin S. Garfinkel. *B.A., Pennsylvania, 1969; M.A., Columbia, 1972; M.Ed., 1974; Ph.D., 1975*
 Basalingappa Hungund. *B.S., Kanatah (Dharwar, India), 1962; M.S., 1964; Ph.D., National Chemical Laboratory (Poona, India), 1968*
 Thomas Lehner. *Ph.D., Vienna (Austria), 1987*
 Ee-Sing Lo. *Ph.D., Shanghai Second Medical College (China), 1978*
 John Nec. *B.S., National University of Taiwan, 1966; Ph.D., Pennsylvania State, 1973; M.P.H., Columbia, 1977*
 Arthur S. Perumal. *B.S., Madras, 1958; M.S., 1963; Ph.D., Indian Institute of Science, 1969*
 Graham F. Pringle. *Ph.D., New York University, 1982*
 Kurt Salzinger. *Ph.D., Columbia, 1954*
 Suzanne Salzinger. *Ph.D., Columbia, 1964*
 Makoto Shimada. *M.D., Keio (Japan), 1986*
 Raymond F. Suckow. *B.S., Columbia, 1967; M.S., St. John's (New York), 1970; Ph.D., 1978*
 Patricia A. Warne. *B.A., Upsala, 1972; Ph.D., Columbia, 1982*
 David E. Wilder. *Ph.D., Columbia, 1959*
 Yatian Zhang. *M.D., Shanghai First Medical College (China), 1971; Ph.D., State University of New York (Brooklyn), 1987*

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 Kaj A. Neve, M.D.
 Rodolfo Pinzon, M.D.
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 Lynne Reitman, M.D.
 Sandra Rosenblum, Ed.D.
 Beth K. Scharfman, M.D.
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 Mary S. Sciutto, M.D.
 Orsolina Sepe, M.D.
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 Paul Spector, M.D.
 Fay Stetner, M.D.
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 Gene E. Alexander, Ph.D.
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 Saletta M. Boni, Ph.D.
 Ivan Bresgi, Ph.D.
 Susan A. Brunelli, Ph.D.
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 Emmanuel Kaftal, Ph.D.
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 Barry Kutok, D.P.A.
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 Amarilis Lendof, M.S.W.
 Abigail Martinez, M.S.W.
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 Helle Thorning, M.S.W.
 Nancy Turret, M.S.W.
 Michael Welikson, M.S.W.

INSTRUCTOR IN CLINICAL SOCIAL WORK

Stephen D. Rosenheck, M.S.W.

At Mary Imogene Bassett Hospital

Assistant Professor of Clinical Psychiatry

Celeste A. Johns. *B.A., Vassar, 1975; M.D., New York University, 1979*

Assistant Clinical Professor

J. Stewart F. Thomson. *M.B., Ch.B., Edinburgh, 1963*

Assistant Clinical Professors of Medical Psychology

John E. Denny. *Ph.D., Massachusetts, 1971*

Charles W. Lamb. *Ph.D., Ohio State, 1960*

ASSOCIATE IN CLINICAL PSYCHIATRY

Peter M. Johnngren, M.D.

ASSOCIATE IN CLINICAL PSYCHOLOGY

Linda Beth Stephan, Ph.D.

At Harlem Hospital Center

Clinical Professor

James L. Curtis. *B.A., Albion, 1944; M.D., Michigan, 1946*

Assistant Professors of Clinical Psychiatry

Stephen L. Bennett. *B.S., Queens, 1949; M.D., Cornell, 1953*
 Henry L. McCurtis. *M.D., Stanford, 1974*
 Peter H. Schween. *M.D., Hamburg (Germany), 1955*

Assistant Clinical Professors

Madeline Amiel. *M.D., Paris (France), 1957*
 Michel Antoine. *B.S., The City University of New York (Brooklyn), 1976; M.D., State University of New York (Downstate), 1980*
 Fred Asiedu-Frimpong. *M.B., Ch.B., Ghana, 1972*
 Shale Brownstein. *B.A., State University of New York (Buffalo), 1955; M.D., 1959*
 Robert B. Clark. *B.A., Temple, 1959; D.O., Philadelphia College, 1963*
 Colin R. Cook. *M.B., B.S., London (England), 1951*
 Dewitt L. Crandell. *M.D., Arkansas, 1955*
 Stanislaw P. Jonas. *M.D., Medical Academy (Warsaw), 1958*
 Milton Lee. *B.A., Columbia, 1952; M.D., New York Medical College, 1956*
 Beverly H. Lituchy. *B.A., Brooklyn, 1957; M.D., State University of New York (Downstate), 1961*
 Mark R. Mankoff. *B.A., Brooklyn, 1959; M.D., Albert Einstein, 1963*
 Camilo Marquez. *B.A., Colby, 1963; M.D., Howard, 1976*
 Raymond Raskin. *B.A., New York University, 1942; M.D., 1946*
 Hana Rostain. *M.D., Buenos Aires, 1952*
 Sady Sultan. *M.D., Universidad Central de Venezuela, 1971*
 Frank F. Thompson. *M.D., Howard, 1972*
 Robert L. Walton. *M.B., B.S., Melbourne, 1966*

LECTURER

Michael O. Smith, M.D.

ASSOCIATE IN CLINICAL PSYCHIATRY

Leon P. Valbrun, M.D.

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 Isaac G. Bampoe, M.D.
 Joel Bedard, M.D.
 Lois J. Bookhardt, M.D.
 Raul G. Calicdan, M.D.
 Michel-Ange Camille, M.D.
 Frantz X. Celestin, M.D.
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 Bienvenido Fajardo, M.D.
 Harold L. Fishkin, M.D.

INSTRUCTORS (continued)

Augustin A. Gomez, M.D.
 Jean-Claude Hyacinthe, M.D.
 Quazi M. H. Imam, M.D.
 Joyce P. Kellawon, M.D.
 Francky Merlin, M.D.
 Tummala P. Naidu, M.D.
 Sonia I. Oquendo, M.D.
 Robert M. Peprah, M.D.
 Subramanyam Rajagopal, M.D.
 Carl J. Saint-Preux, M.D.
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 Dilip A. Shah, M.D.
 Yogasaudari Thiagarajah, M.D.
 Cristina S. Weldt, M.D.
 Robert Wilkins, M.D.

INSTRUCTOR IN CLINICAL PSYCHOLOGY

Paula J. Owens, Ph.D.

At Helen Hayes Hospital

Assistant Clinical Professor

Karl J. Schroeder. *B.A., Notre Dame, 1970; M.D., Columbia, 1974*

At Morristown Memorial Hospital

Assistant Clinical Professors

Richard A. Dickes. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*
 Cary L. Hamlin. *B.S., Pittsburgh, 1971; M.D., 1975*
 Harvey M. Hammer. *B.A., Cornell, 1956; M.D., New York Medical College, 1960*

LECTURER

Roger B. Granet, M.D.

INSTRUCTOR IN CLINICAL PSYCHIATRY

Alice T. Plummer, M.D.

ASSOCIATE IN CLINICAL PSYCHIATRY

Sherry Barron-Seabrook, M.D.

At Overlook Hospital

Assistant Clinical Professors

Albert M. Bromberg. *B.S., William & Mary, 1953; M.D., Duke, 1957*
 Linus Root. *B.S., Georgetown, 1953; M.D., 1957*
 A. Ronald Sorvino. *B.S., St. John's (New York), 1954; M.D., State University of New York (Downstate), 1958*

LECTURER

Morton Friedman, M.D.

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Psychiatry

Sigurd Ackerman. *B.A., Harvard, 1962; M.D., Tufts, 1966*

Associate Professor of Clinical Psychiatry

Howard M. Klar. *B.A., Brooklyn, 1969; M.D., State University of New York (Downstate), 1976*

Associate Professor of Clinical Psychology

Harry Kissileff (in Medicine). *B.A., Pennsylvania, 1962; Ph.D., 1966*

Associate Clinical Professors

Donald B. Brown. *B.A., Cornell, 1961; M.D., Case Western Reserve, 1965*
 Richard C. Friedman. *B.A., Bard, 1961; M.D., Rochester, 1966*
 Gary Lee Lefer. *B.S., Stanford, 1962; M.D., Georgetown, 1966*
 David D. MacDonald. *B.S., Oregon, 1945; M.D., Tufts, 1949*
 Howard Millman. *B.A., Cornell, 1955; M.D., New York University, 1969*
 Stephen P. Reibel. *B.A., Harvard, 1957; M.D., 1961*
 George Satran. *B.A., Columbia, 1952; M.D., New York University, 1956*
 Joel Solomon. *M.D., Lausanne, 1968*
 William M. Tucker. *B.A., Harvard, 1962; M.A., Yale, 1965; M.D., Columbia, 1969*

Associate Clinical Professors of Medical Psychology

Susan Winship Coates. *B.A., Sarah Lawrence, 1962; M.A., Vassar, 1968; Ph.D., New York University, 1976*
 James D. Meltzer. *B.A., Columbia, 1968; Ph.D., New York University, 1973*

Assistant Professors of Clinical Psychiatry

- Shepard J. Kantor. *B.A., Colby, 1965; M.D., Johns Hopkins, 1969*
 Larry Kirstein. *B.A., Clark, 1967; M.D., State University of New York (Downstate), 1971*
 Rocco F. Marotta. *B.A., Manhattan, 1970; Ph.D., City University of New York, 1977; M.D., Cornell, 1985*

Assistant Professor of Clinical Psychology

- Gary K. Zammit. *B.A., Oakland, 1979; M.A., 1980; Ph.D., Toledo, 1987*

Assistant Clinical Professors

- Gail B. Allen. *B.A., Wellesley, 1957; M.D., New York University, 1961*
 Frederic A. Alling. *B.A., Princeton, 1952; M.D., Columbia, 1961*
 Alex Caemmerer, Jr. *B.A., Princeton, 1944; M.D., Columbia, 1947*
 Ralph Colp, Jr. *B.A., Indiana, 1945; M.D., 1949*
 Nathaniel Donson. *B.A., Cornell, 1958; M.D., New York University, 1962*
 Bruce W. Fader. *B.A., New York University, 1963; M.D., Miami, 1967*
 John A. Fogelman. *B.A., Columbia, 1959; M.D., State University of New York (Downstate), 1964*
 Janusz G. Gorzynski. *M.D., Academy of Medicine (Warsaw), 1963*
 James G. Katis. *B.A., Wesleyan, 1956; M.D., McGill, 1960*
 Leo Kron. *M.D., British Columbia, 1971*
 James M. McGowan. *B.A., Notre Dame, 1960; M.D., Kentucky, 1964*
 John A. Milici. *B.A., Yale, 1947; M.D., Geneva (Switzerland), 1957*
 Paul William Nassar. *B.A., New York University, 1963; M.D., Rome, 1968*
 Michael A. Pawel. *B.A., Wesleyan, 1967; M.D., Albert Einstein, 1971*
 Arthur M. Perlman. *B.A., Columbia, 1957; M.D., State University of New York (Buffalo), 1961*
 Kenneth Porter. *B.A., Harvard, 1963; M.D., Albert Einstein, 1969*
 Rebecca A. Prussin. *B.A., California (Santa Cruz), 1973; M.D., Northwestern, 1983*
 Jonathan E. Rosenfeld. *B.A., Columbia, 1969; M.Phil., 1975; M.D., Ph.D., 1976*
 Robert D. Scharf. *B.S., Union, 1966; M.D., Albert Einstein, 1970*
 Andrew C. Schiffman. *B.S., State University of New York (Stony Brook), 1968; M.D., State University of New York (Downstate), 1972*
 Henry P. Schwartz. *B.A., Hampshire, 1978; M.D., State University of New York (Downstate), 1983*
 Christina M. Skaer. *B.A., Ohio, 1966; Ph.D., Columbia, 1972; M.D., New York University, 1973*
 Steven G. Wager. *B.A., Washington (St. Louis), 1975; M.D., Case Western Reserve, 1980*
 Peter J. Weiden. *B.A., Swarthmore, 1977; M.D., State University of New York (Stony Brook), 1981*
 Henry W. J. Weisman. *B.A., Columbia, 1973; M.D., Monterrey, 1978*
 Harvey L. White. *B.A., Harvard, 1959; M.D., New York Medical College, 1964*
 C. Philip Wilson. *B.A., Yale, 1942; M.D., Columbia, 1945*

Assistant Clinical Professors of Medical Psychology

- Lewis Aron. *M.A., St. John's, 1975; Ph.D., 1980*
 Philip M. Bromberg. *B.A., New York University, 1953; Ph.D., 1967*
 Allan A. Cassorla. *M.A., City University of New York, 1984; M.Phil., Ph.D., 1986*
 Barbara R. Cohn. *B.A., Indiana, 1965; Ph.D., New York University, 1974*
 Robert A. Cutick. *B.A., Brooklyn, 1957; M.D., Pennsylvania, 1961; Ph.D., 1962*

SPECIAL LECTURERS

- Harry R. Potter, M.D.
 John L. Schimel, M.D.
 Miltiades Zaphiropoulos, M.D.

LECTURERS

Joseph Edward Arleo, M.D.
 William C. Crain, M.D.
 Paul Dince, M.D.
 Juan-Carlos Echevarria, M.D.
 Gloria Friedman, M.D.
 Maurice R. Green, M.D.
 Norman S. Handelman, M.D.
 Jay Kwawer, M.D.
 Richard Lasky, Ph.D.
 Lois R. Mound, M.D.
 Dagmar G. O'Connor, M.D.
 Dale H. Ortmeier, Ph.D.
 Daniel Pilowsky, M.D.
 Arthur J. Rudy, Ph.D.

ASSOCIATES IN CLINICAL PSYCHIATRY

Joshua Algaze, M.D.
 Ted Eugene Becker, Jr., M.D.
 William H. Brownlee, M.D.
 Lucy E. Collins, M.D.
 Stephen C. Glassberg, M.D.
 Sonia W. Hyman, M.D.
 Lauma U. Katis, M.D.
 Henry Clay Mallard, M.D.
 M. Daniel Nienaltow, M.D.
 Mitchell Rosenthal, M.D.
 Carlotta L. Schuster, M.D.
 Ruth Szmarg, M.D.

ASSOCIATES IN CLINICAL PSYCHOLOGY

Lisa Mann, Ph.D.
 Phyllis L. Sloate, Ph.D.

INSTRUCTORS IN CLINICAL PSYCHIATRY

Peter Aldin, M.D.
 Cyrus Ayromlooi, M.D.
 Arline C. Caldwell, M.D.
 Paul W. De Bell, M.D.
 Hanne E. Favelukes, M.D.
 Joseph C. Finkle, M.D.
 Harold H. Fogelman, M.D.
 Elizabeth C. Frischauf, M.D.
 David B. Gandler, M.D.

INSTRUCTORS (*continued*)

Shirin Ghaemmaghami, M.D.
 Terry J. Golash, M.D.
 Joel Gonchar, M.D.
 Robert A. Herman, M.D.
 David K. Jordan, M.D.
 Kenneth R. Jungblut, M.D.
 Marvin Roy Kremberg, M.D.
 Ulla K. Laakso, M.D.
 Zev W. E. Labins, M.D.
 Woon Soon Lee, M.D.
 Fredrick John Matzner, M.D.
 Alan Medina, M.D.
 Gregory A. Miller, M.D.
 Helen G. Muhlbaier, M.D.
 Henry A. Paul, M.D.
 V. Rachel Phillips, M.D.
 Henry A. Remet, M.D.
 George Edward Rowan, M.D.
 Edith B. Rubenstein, M.D.
 Jeffrey H. Sacks, D.O.
 Morisa Schiff-Mayer, M.D.
 Keith Sedlacek, M.D.
 Jane Simon, M.D.
 Martha C. Troutman, M.D.
 Maria L. Velez, M.D.
 David S. Weinberger, M.D.
 Pauline E. Weiss, M.D.
 Barbara Wilson, M.D.
 Douglas P. Wornell, M.D.
 Jane Zirin, M.D.
 Joseph A. Zito, M.D.

INSTRUCTORS IN CLINICAL PSYCHOLOGY

Maria R. Derevenco, Ph.D.
 Allan Geliebter, Ph.D.
 Shoshana M. Goldman, Ph.D.
 Nancy A. Kochanowicz, Ph.D.
 Peter G. Lincoln, Ph.D.
 Karen E. Moncher, Ph.D.
 Pasqual J. Pantone, Ph.D.
 Marcia Rosen, Ph.D.
 Barbara B. Thacher, Ph.D.

Public Health

Joseph Delamar Professor and Dean

Allan Rosenfield (also Obstetrics & Gynecology) (in the Center for Population & Family Health). *B.A.*, *Harvard*, 1955; *M.D.*, *Columbia*, 1959

Biostatistics

Visiting Professor and Division Head

Paul Meier (also Statistics). *B.S.*, *Oberlin*, 1945; *M.A.*, *Princeton*, 1947; *Ph.D.*, 1951

Professor

Joseph L. Fleiss (also Mathematical Statistics). *B.A., Columbia, 1959; M.S., 1961; Ph.D., 1967*

Professor of Clinical Public Health

Susan E. Hodge (in Psychiatry). *B.A., Antioch, 1968; D.Sc., Washington, 1976*

Adjunct Senior Research Scientist

Neal W. Chilton. *B.S., College of the City of New York, 1939; D.D.S., New York University, 1943; M.P.H., Columbia, 1946*

Associate Professors

Bruce Levin (in the Sergievsky Center). *B.A., Columbia, 1968; M.A., Harvard, 1972; Ph.D., 1974*

Shaw-hwa Lo (also Statistics). *B.S., National Taiwan University, 1975; M.A., California (Santa Barbara), 1978; Ph.D., California (Berkeley), 1981*

Wei-Yann Tsai. *B.S., National Chung-Kung University (Taiwan), 1974; M.S., New Brunswick, 1978; Ph.D., Wisconsin (Madison), 1982*

Assistant Professors

Melissa D. Begg (in the Sergievsky Center). *B.S., Fairfield, 1985; Sc.D., Harvard, 1989*

Myunghee Paik (in the Sergievsky Center). *B.S., Seoul National, 1982; M.S., Pittsburgh, 1984; Ph.D., 1987*

Adjunct Assistant Professors

Katherine Freeman. *B.A., State University of New York (Binghamton), 1971; M.S., Massachusetts, 1973; Dr.P.H., Columbia, 1982*

Donald C. Ross. *B.A., Rochester, 1955; M.A., North Carolina, 1957; Ph.D., 1960*

Assistant Professors of Clinical Public Health

Veronica J. Vieland (in Psychiatry). *B.A., Barnard, 1979; M.A., Columbia, 1981; M. Phil., 1984; Ph.D., 1986; M.S., 1988*

Priya J. Wickramaratne (in Psychiatry). *B.S., London, 1968; M.S., Stanford, 1970; Ph.D., Yale, 1984*

SPECIAL LECTURER

Livia Turgeon, M.S.

LECTURERS

Mark Davies, M.P.H.

John P. Orazem, Ph.D.

Alan D. Weinberg, M.S.

INSTRUCTOR

Cecilia A. Hale, Ph.D.

Environmental Sciences

Professor of Pharmacology and Division Head

Joseph Graziano (in Pediatrics). *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*

Professors

Leonard C. Harber (also Richard & Mildred Rhodebeck Professor of Dermatology). *B.A.*, *Johns Hopkins*, 1949; *M.D.*, *New York University*, 1953; *M.S.*, 1959

I. Bernard Weinstein (also Frode Jesen Professor of Medicine) (also Genetics & Development) (in the Comprehensive Cancer Center). *B.S.*, *Wisconsin*, 1952; *M.D.*, 1955

Clinical Professor of Public Health

Granville H. Sewell. *B.S.*, *Massachusetts Institute of Technology*, 1959; *Ph.D.*, 1966

Associate Professors

Vincent T. Covello. *B.A.*, *Cambridge*, 1971; *M.A.*, 1973; *Ph.D.*, *Columbia*, 1976

Frederica P. Perera. *B.A.*, *Radcliffe*, 1963; *M.P.H.*, *Columbia*, 1976; *Dr.P.H.*, 1981

Regina M. Santella. *B.S.*, *Brooklyn*, 1969; *M.S.*, *Massachusetts*, 1971; *Ph.D.*, *City University of New York*, 1976

Marco Zaider (also Radiation Oncology). *M.S.*, *Bucharest*, 1968; *Ph.D.*, *Tel Aviv*, 1976

Associate Professor of Occupational Medicine

Paul W. Brandt-Rauf (in Medicine). *B.S.*, *Columbia*, 1970; *M.S.*, 1973; *Sc.D.*, 1974; *M.D.*, 1979; *M.P.H.*, 1980

Adjunct Associate Professor

James A. Hathaway. *B.A.*, *California (Los Angeles)*, 1964; *M.D.*, 1967; *M.P.H.*, 1969

Associate Professors of Clinical Public Health

Alan M. Jeffrey (in Pharmacology). *B.S.*, *Hull (United Kingdom)*, 1966; *Ph.D.*, *North Wales*, 1970

Jeanne M. Stellman. *B.S.*, *City College of New York*, 1968; *Ph.D.*, 1972

Associate Clinical Professor

Robert Lewy (also Medicine). *B.A.*, *Rochester*, 1967; *M.D.*, *College of Medicine and Dentistry of New Jersey*, 1971

Assistant Professors

Adelaide M. Carothers. *B.A.*, *New York University*, 1973; *M.S.*, 1976; *Ph.D.*, 1979

Mary S. Matsui (in Dermatology). *B.A.*, *Knox*, 1973; *M.S.*, *Drexel*, 1979; *Ph.D.*, *Columbia*, 1986

Adjunct Assistant Professors

Michael D. Goldstein. *B.S.*, *State University of New York (Stony Brook)*, 1979; *M.D.*, *Columbia*, 1983; *M.P.H.*, 1987

Lillian P. Langseth. *B.A.* *Fairleigh Dickinson*, 1961; *M.S.*, *New York University*, 1968; *Dr.P.H.*, *Columbia*, 1990

Jack Mayer. *M.D.*, *New York University*, 1971; *M.P.H.*, *Columbia*, 1990

Assistant Professors of Clinical Public Health

Leslie R. Andrews. *B.S.*, *Providence College*, 1968; *M.A.*, *New York University*, 1975; *Dr.P.H.*, *Columbia*, 1985

L. Fleming Fallon, Jr. *B.A.*, *Colby*, 1972; *M.A.*, *Case Western Reserve*, 1973; *M.S.*, *Wagner*, 1977; *M.B.A.*, *New Haven*, 1979; *Ph.D.*, *St. Lucia (El Paso)*, 1980; *M.D.*, *St. George's*, 1984; *M.P.H.*, *Columbia*, 1986
 Henry Herno, Jr. *B.S.*, *Fairleigh Dickinson*, 1961; *M.A.*, *Montclair*, 1966; *Dr.P.H.*, *Columbia* 1985

Assistant Clinical Professors

Edward A. Christman. *B.S.*, *Ohio*, 1965; *M.S.*, *Rutgers*, 1974; *Ph.D.*, 1977
 O. Bruce Dickerson. *M.D.*, *Missouri*, 1962; *M.P.H.*, *California (Los Angeles)*, 1966
 Jan Schwarz-Miller. *B.A.*, *Hampshire (Massachusetts)*, 1976; *M.D.*, *Tel Aviv (Israel)*, 1984; *M.P.H.*, *Columbia*, 1991
 Marina Stefanidis. *B.A.*, *Case Western Reserve*, 1984; *M.S.*, 1986; *Dr.P.H.*, *Columbia*, 1990

Assistant Clinical Professor of Ophthalmology

Louis D. Pizzarello. *B.A.*, *Colgate*, 1971; *M.P.H.*, *Harvard*, 1974; *M.D.*, *Virginia*, 1975

SPECIAL LECTURER

Dezider Grunberger, *Ph.D.*, *Sc.D.*

LECTURERS

Lawrence D. Budnick, *M.D.*, *M.P.H.*
 Vincent Coluccio, *Dr.P.H.*
 Jean B. Cropper, *M.P.H.*
 Herman Ellis, *M.D.*
 Michael McCann, *Ph.D.*
 Thomas T. Shen, *Ph.D.*
 Haig Michael D. Utidjian, *M.B.*, *B.S.*

Epidemiology

Associate Professor and Acting Division Head

Bruce G. Link (in Psychiatry). *B.A.*, *Earlham*, 1971; *M.S.* *Columbia*, 1980; *Ph.D.*, 1982

Professors

Bruce P. Dohrenwend (in Psychiatry). *B.A.*, *Columbia*, 1950; *M.A.*, 1951; *Ph.D.*, *Cornell*, 1955
 W. Allen Hauser (also Neurology) (in the Sergievsky Center). *B.A.*, *Case Western Reserve*, 1958; *M.D.*, *St. Louis*, 1962
 Thomas A. Pearson. *B.A.*, *Johns Hopkins*, 1973; *M.D.*, *M.P.H.*, 1976; *Ph.D.*, 1983
 Zena A. Stein (in the Sergievsky Center and Psychiatry). *B.A.*, *Cape Town*, 1941; *M.A.*, 1942; *M.B.*, *Ch.B.*, *Witwatersrand (South Africa)*, 1950
 Myrna Weissman (in Psychiatry). *M.S.W.*, *Pennsylvania*, 1958; *Ph.D.*, *Yale*, 1974

Adjunct Professor

Cladd E. Stevens. *B.A.*, *Pomona College*, 1963; *M.D.*, *Baylor*, 1968; *M.P.H.*, *Washington (Seattle)*, 1974

Professor of Clinical Public Health

Patricia R. Cohen (Epidemiology) (in Psychiatry). *B.A.*, *Hamline*, 1958; *Ph.D.*, *New York University*, 1968

Clinical Professor

William T. Friedewald (also Medicine). B.S., *Notre Dame*, 1959; M.D., *Yale*, 1963

Associate Professors

Maureen C. Hatch. B.A., *Manhattanville*, 1963; M.P.H., *Columbia*, 1979; Ph.D., 1983
Elmer Struening. B.S., *Hastings*, 1949; M.S., *Purdue*, 1951; Ph.D., 1957

Adjunct Associate Professor

Jennie K. Kline (in the Sergievsky Center). B.A., *Chicago*, 1972; M.S., *Columbia*, 1974; M. Phil., 1975; Ph.D., 1977

Associate Professors of Clinical Public Health

Leslie Davidson (also Pediatrics) (in the Sergievsky Center). B.A., *Harvard*, 1969; M.D., *Columbia*, 1978
Inge F. Goldstein. B.A., *Wellesley*, 1951; M.S., *Pittsburgh*, 1956; M.S., *Columbia*, 1968; Dr. P.H., 1976
Madelyn S. Gould (in Psychiatry). B.S., *Brooklyn College*, 1972; M.A., *Princeton*, 1974; M.P.H., *Columbia*, 1976; Ph.D., 1980
Alfred I. Neugut (also Medicine). B.A., *Columbia*, 1972; M.D., Ph.D., 1977; M.P.H., 1983
Ruth Ottman (in the Sergievsky Center). B.A., *California (Berkeley)*, 1975; Ph.D., 1980
Steven Shea (also Medicine). B.A., *Harvard*, 1968; M.A., *Yale*, 1971; M.D., *Columbia*, 1979; M.S., *Harvard*, 1985

Associate Clinical Professor

L. David Carmichael (also Medicine). B.A., *Harvard*, 1969; M.D., *Albert Einstein*, 1976

Assistant Professors

Maureen S. Durkin (in the Sergievsky Center). M.P.H., *Columbia*, 1985; Dr.P.H., 1988
Pamela Factor-Litvak. B.A., *Rochester*, 1977; M.S., *Harvard*, 1979; Ph.D., *Columbia*, 1992
Marilie D. Gammon. B.S., *California (Berkeley)*, 1974; M.P.H., *Washington (Seattle)*, 1982; Ph.D., *Yale*, 1989
Richard M. Garfield (also Nursing). B.A. *Hahnemann*, 1976; B.A., *Beacon*, 1977; M.P.H., *Columbia*, 1980; Dr. P.H., 1985; M.S., 1986
Natalia Kanem (also Pediatrics) (in the Sergievsky Center). B.A., *Harvard*, 1976; M.D., *Columbia*, 1980; M.P.H., *Washington*, 1990
Karen G. Raphael (in Psychiatry). B.A., *Hofstra*, 1977; Ph.D., 1984
Ralph Sacco (also Neurology). B.S., *Cornell*, 1979; M.D., *Boston*, 1983
Charlotte A. Stueve. B.A., *Michigan*, 1971; M.A., *Chicago*, 1974; Ph.D., *California*, 1985
Carolyn L. Westhoff (also Obstetrics & Gynecology). B.S., *Michigan* 1972; M.D., 1977; M.S., *London School of Hygiene & Tropical Medicine*, 1983

Adjunct Assistant Professors

Seth F. Berkley. B.S., *Brown*, 1978; M.D., 1981
Edward A. Bortnichak. B.A., *Pennsylvania*, 1973; M.P.H., *Yale*, 1977; M. Phil., 1978; Ph.D., 1981
Mary Ann Chiasson. B.A., *Bennington*, 1972; M.S., *New York University*, 1978; M.P.H., *Columbia*, 1985; Dr.P.H., 1988
Gretchen Dieck. B.A., *Smith*, 1976; M. Phil., *Yale*, 1979; Ph.D., 1982
Ann B. Goodman. B.A., *Radcliffe*, 1953; M.A., *George Washington*, 1963; M.S., *Columbia*, 1972

Beryl Koblin. B.A., *Delaware*, 1978; M.S., *Johns Hopkins*, 1982; Ph.D., 1987
 Paul S. May. B.S., *College of the City of New York*, 1951; M.S., *State University of New York (Syracuse)*, 1952; D.Sc., *Philadelphia College of Pharmacy*, 1955; M.P.H., *Columbia*, 1970
 Alfredo Morabia. M.D., *Geneva*, 1978; M.A., *Johns Hopkins*, 1987; Ph.D., 1989
 Janet B. Schoenberg. B.A., *Swarthmore*, 1967; M.Phil., *Yale*, 1970; M.P.H., 1973
 Annette Stemhagen. B.A., *Pennsylvania*, 1973; M.P.H., *Pittsburg*, 1975; Dr.P.H., 1982
 Rand L. Stoneburner. B.S., *Presbyterian (South Carolina)*, 1971; M.D., *Tulane*, 1975; M.P.H., *Harvard*, 1981
 Scott Stryker. B.A., *Rice*, 1973; M.D., *Baylor*, 1977; M.P.H., *Harvard*, 1982; Dr.P.H., 1987
 Isaac B. Weisfuse. B.A., *Columbia*, 1977; M.D., *State University of New York (Downstate)*, 1982

Assistant Professors of Clinical Public Health

Deborah S. Hassin (in Psychiatry). B.A., *California (Los Angeles)*, 1972; M.S., *Columbia*, 1980; M. Phil., 1985; Ph.D., 1986
 Christina Hoven (in Psychiatry). B.A., *Lindenwood*, 1966; M.A., *Missouri*, 1968; M.P.H., *Columbia*, 1983; M.S., 1987; Dr.P.H., 1988
 Wendy W. Huebner. B.S., *Wisconsin*, 1966; M.P.H., *Columbia*, 1985; Ph.D., 1990
 Stephen K. C. Ng (in the Sergievsky Center). B.S., *LaSalle*, 1967; M.B., B.S., *Hong Kong*, 1972; M.P.H., *Columbia*, 1981; Dr.P.H., 1986
 Sharon B. Schwartz. B.A., *Albert Einstein*, 1973; M.A., *Columbia*, 1974; Ph.D., 1985; M.S., 1988
 Susan A. Wilt. B.A., *Bennington (Vermont)*, 1964; M.S., *Columbia*, 1978; M.P.H., 1985

Assistant Clinical Professors

Linnea Capps (also Medicine). B.S., *Kansas*, 1971; M.D., *Missouri*, 1977; M.P.H., *Columbia*, 1985
 Bruce S. Gellin. B.A., *North Carolina*, 1977; M.D., *Cornell*, 1983; M.P.H., *Columbia*, 1991
 Sam R. Toussie. B.A., *Vermont*, 1972; M.S., *Columbia*, 1976; Ph.D., 1984

Associate Research Scientist

Diane E. Mclean. B.A., *Harvard*, 1978; M.P.H., *Columbia*, 1983; Ph.D., 1991

SPECIAL LECTURERS

Anna C. Gelman, M.P.H.
 Mervyn W. Susser, M.B., Ch.B.

LECTURERS

Gertrud S. Berkowitz, Ph.D.
 Stephen M. Friedman, M.D., M.P.H.
 Anne L. Golden, Ph.D.

Geriatrics and Gerontology

John E. Borne Professor of Clinical Psychiatry and Division Head

Barry J. Gurland. M.B., Ch.B., *Capetown*, 1955

Professor of Clinical Public Health

Ruth Bennett (in Psychiatry). B.A., *Brooklyn*, 1955; Ph.D., *Columbia*, 1962

Assistant Professor of Clinical Public Health

John A. Toner (in Psychiatry). B.A., *William Paterson*, 1975; Ed.D., *Columbia*, 1976

Assistant Clinical Professor of Dental & Oral Surgery

Lynn M. Tepper (also Public Health). *B.S., State University of New York (Buffalo), 1967; M.S., Wayne State, 1971; M.A., Columbia, 1977; Ed.M., 1978; Ed.D., 1980*

Associate Research Scientists

Virginia W. Barrett. *A.A., Colby Sawyer, 1961; B.A., Columbia, 1964; M.Ed., 1980; Dr.P.H., 1987*

Cathy S. Berkman. *B.S., Vermont, 1973; M.S.W., Boston, 1975*

Ernest J. Millman. *B.A., Queens, 1969; M.A., M.Phil., Ph.D., Columbia, 1978; M.P.H., 1984*

LECTURERS

Robert Karp, M.D.

Eloise H. P. Killeffer. Ed. M.

Julie I. Pellman, Ph.D.

Hila E. Richardson, Dr.P.H.

Venkata S. Satti, M.B.,B.S.

Shura Saul, Ed.D.

Anil K. Verma, M.B.,B.S.

Health Policy and Management

Professor and Division Head

Lawrence Brown. *B.A., Harvard, 1969; Ph.D., 1973*

Professors

Lowell E. Bellin. *B.S., Yale, 1948; M.D., State University of New York (Downstate), 1951; M.P.H., Harvard, 1964*

Jane E. Sisk. *B.A., Brown, 1963; M.A., George Washington, 1965; Ph.D., McGill, 1976*

Adjunct Professors

Howard L. Bailit. *D.M.D., Tufts, 1962; M.S., Harvard, 1964; Ph.D., 1967*

Noreen M. Clark. *B.S., Utah, 1965; M.A., Columbia, 1972; Ph.D., 1976*

Mathilde Krim (in Pediatrics). *B.S., Geneva (Switzerland), 1948; Ph.D., 1953*

Joseph V. Terenzio. *B.A., Yale, 1939; J.D., Fordham, 1947; M.S., Columbia, 1954*

Professor of Clinical Public Health

Charles K. Francis (also Medicine). *A.B., Dartmouth, 1961; M.D., Jefferson, 1965*

Clinical Professors

Samuel Davis. *B.A., City College of New York, 1952; M.S., Columbia, 1957*

Stephen N. Rosenberg. *B.A., Cornell, 1963; M.D., Albert Einstein, 1967; M.P.H., Harvard, 1969*

Associate Professor

Bernard Challenor. *B.A., Hunter, 1957; M.D., State University of New York (Downstate), 1961; M.P.H., Harvard, 1963*

Adjunct Associate Professors

Harold Fruchthbaum (History and Philosophy of Public Health). B.C.E., *New York University*, 1955; M.S., *Rensselaer Polytechnic Institute*, 1956; Ph.D. *Harvard*, 1964
Lloyd F. Novick. B.A., *Colgate*, 1961; M.D., *New York University*, 1965; M.P.H., *Yale*, 1971

Associate Clinical Professors

Oliver T. Fein (also Medicine). B.A., *Swarthmore*, 1962; M.D., *Case Western Reserve*, 1967
Sheila A. Gorman. B.S.N., *Niagara*, 1959; M.P.H., *Columbia*, 1972; M. Phil., 1981; Ph.D., 1982

Assistant Professors

David A. Albert (also Dental & Oral Surgery). B.A., *New York University*, 1980; D.D.S., 1984; M.P.H., *Columbia*, 1987
Sherry A. M. Glied. B.A., *Yale*, 1982; M.A., *Toronto*, 1985; Ph.D., *Harvard*, 1990
Stephen E. Marshall (also Dental & Oral Surgery). B.A., *Case Western Reserve*, 1982; D.D.S., *State University of New York (Buffalo)*, 1986; M.P.H., *Columbia*, 1989
Michael S. Sparer. B.A., *Beloit (Wisconsin)*, 1977; J.D., *Rutgers*, 1980

Adjunct Assistant Professors

Theodore Allison. B.S., *Columbia*, 1953; M.A., *Yale*, 1954
Raymond R. Arons. B.S., *Fairleigh Dickinson*, 1962; M.P.H., *Columbia*, 1976; Dr.P.H., 1983
Donald L. Ashkenase. B.S., *Brooklyn*, 1965; M.B.A., *Wagner*, 1974
John Baer. B.A., *Oberlin*, 1959; M.S., *Columbia*, 1961; D.P.A., *New York University*, 1967
Tryfon J. Beazoglou. B.A., *Athens*, 1963; M.A., *Chicago*, 1972; Ph.D., *Northwestern*, 1980
Willine Carr. B.A., *North Carolina (Greensboro)*, 1967; M.P.H., *North Carolina (Chapel Hill)*, 1970; M.P.H., *Columbia*, 1982
Annette Choolfaian. B.S., *Bridgeport*, 1964; M.P.A., *New York University*, 1972
Merle C. Cunningham. B.A., *Rochester*, 1967; M.D., 1972; M.P.H., *Columbia*, 1976
Anita Stiles Curran. B.A., *Connecticut*, 1951; M.D., *New York Medical College*, 1955; M.P.H., *Columbia*, 1974
William E. Gold. B.A., *State University of New York (Stony Brook)*, 1970; M.S.S., *Hebrew (Israel)*, 1972; Ph.D., *Minnesota*, 1982
Gail Marie Gordon. B.S., *University of Minnesota*, 1968; M.P.H., *Johns Hopkins*, 1973; Dr.P.H., *Columbia*, 1979
Nancy Graham. M.P.H., *Columbia*, 1972; Ph.D., 1976
Lois A. Grau. B.S.N., *Marquette*, 1968; M.S., *Wisconsin*, 1976; Ph.D., 1979
Elane M. Gutterman. B.A., *State University of New York (Albany)*, 1972; M.S.W., *Yeshiva*, 1974; Ph.D., *Columbia*, 1983
Sanja Johansen. B.A., *California (Berkeley)*, 1958; M.A., 1960; M.P.A., *Alaska*, 1978; M.Phil., *Columbia*, 1981; Ph.D., 1982
Henry R. Karpe. B.A., *College of the City of New York*, 1952; M.S., *Wisconsin*, 1972
John Kastan. B.S., *New York University*, 1976; M.A., *New School for Social Research*, 1979; Ph.D., *The City University of New York*, 1991
John M. Kuder. B.A., *Drake*, 1971; M.A., *Arkansas*, 1972; Ph.D., *Michigan*, 1979
Jeffrey S. Markowitz. B.A., *Queens (New York)*, 1972; M.P.H., *Columbia*, 1980; Dr.P.H., 1988
Marcia L. Pinkett-Heller. B.A., *Howard*, 1963; M.P.H., *Michigan*, 1970
Arnold E. Rosenblum (Health Administration). B.A., *Brooklyn*, 1947; J.D., *New York University*, 1950; M.S., *Columbia*, 1964
Eleanore Rothenberg. B.A., *Brooklyn*, 1955; M.P.A., *New York University*, 1969; Ph.D., 1975
Barry R. Snow. B.A., *Yeshiva*, 1975; M. Phil., *City University of New York*, 1980; Ph.D., *Columbia*, 1981
James R. Tallon, Jr. B.A., *State University of New York (Syracuse)*, 1963; M.A., *Boston*, 1967
Michael L. Ziegler. B.A., *State University of New York (Albany)*, 1972; J.D., *State University of New York (Buffalo)*, 1976; M.P.H., *Columbia*, 1978

Assistant Professors of Clinical Public Health

Robert E. Fullilove (in Psychiatry). *B.A.*, *Colgate*, 1966; *M.S.*, *Syracuse*, 1972; *Ed.D.*, *Columbia*, 1984
 Margaret A. Hamburg. *B.A.*, *Harvard*, 1978; *M.D.*, 1983

Assistant Clinical Professors

Joseph Corcoran. *B.S.*, *St. Peter's*, 1964; *M.B.A.*, *Pace*, 1965
 David Lawrence Ginsberg. *B. Arch.*, *Cornell*, 1955
 Margaret L. Haynes. *B.S.*, *Fairleigh Dickinson*, 1968; *M.P.H.*, *Columbia*, 1975; *Ed.D.*, 1984
 Daniel W. Morrissey. *M.A.*, *Pontifical Faculty of St. Thomas Aquinas*, 1958; *M.A.*, *Aquinas Institute of Theology*, 1962; *S.T.L.*, 1963
 James J. O'Brien. *B.A.*, *Fordham*, 1966; *M.A.*, 1968; *Ph.D.*, 1973
 Michael P. O'Connor. *B.A.*, *St. John's*, 1972; *M.P.A.*, *City University of New York*, 1977; *M.Ed.*, *Columbia*, 1987; *Ed.D.*, 1991
 Richard S. Thomas. *B. Arch.*, *Pratt Institute*, 1968
 Richard P. Zucker. *B.E.*, *Cooper Union*, 1970; *M.P.H.*, *Columbia*, 1981

SENIOR LECTURERS

Dennis P. Andrulis, *M.P.H.*
 Melanie C. Dreher, *Ph.D.*

LECTURERS

Frederick D. Alley, *M.S.*
 Barbara Bengen, *M.B.A.*
 Jay M. Bolnick, *M.P.H.*
 Patricia A. Chambers, *M.B.A.*
 Martin Cherkasky, *M.D.*
 Victor G. Demarco, *B.S.*
 Ronald B. Dreskin, *M.B.A.*
 Karin Eckert, *M.P.H.*, *M.B.A.*
 John J. Farmer, *C.P.A.*
 Charmaine M. Fitzig, *Dr.P.H.*
 Nicholas Freudenberg, *Dr.P.H.*
 Gary Gambuti, *M.P.H.*
 Doris Goldberg, *M.P.H.*
 Margaret T. Grossi, *M.D.*
 David Harris, *M.D.*
 Cathy Idema, *M.P.H.*
 Florence Kavalier, *M.D.*

Stuart M. Lane, *Ph.D.*
 David E. Leach, III, *J.D.*
 Arthur A. Levin, *M.D.*
 Jacob J. Lindenthal, *Ph.D.*
 Regina Loewenstein, *M.A.*
 Daniel R. Longo, *Sc.D.*
 Anthony C. Mustalish, *M.D.*
 Donna O'Hare, *M.D.*
 Ernestine S. Pantel, *Dr.P.H.*
 James M. Pierce, *M.P.H.*
 Peter M. Raith, *M.A.*
 Marjorie A. Rock, *Dr.P.H.*
 Peter Rogatz, *M.D.*
 Alan H. Rosenblut, *M.B.A.*
 Alvin Strelnick, *M.D.*
 John W. Wohltman, Jr., *M.A.*

INSTRUCTORS

Lin H. Mo, *M.P.H.*, *M.B.A.*
 Joseph B. Stamm, *M.P.H.*
 Ilona W. Surick, *M.P.H.*

Population and Family Health

Professor and Division Head

James McCarthy. *B.A.*, *Holy Cross*, 1971; *M.P.H.*, *Indiana*, 1976; *Ph.D.*, *Princeton*, 1977

Professor

Sami A. Hashim. *B.A.*, *Beirut*, 1950; *M.S.*, 1952; *M.D.*, *State University of New York (Buffalo)*, 1955

Adjunct Professors

Joy G. Dryfoos. *B.A.*, *Antioch*, 1951; *M.A.*, *Sarah Lawrence*, 1966
 Susan G. Philliber. *B.A.*, *Florida State*, 1965; *M.S.*, 1966; *Ph.D.*, 1968

Professors of Clinical Public Health

Nicholas Cunningham (also Pediatrics). *B.A., Harvard, 1950; M.D., Johns Hopkins, 1955; Dr.P.H., 1977*
 Stephen L. Isaacs. *B.A., Brown, 1961; J.D., Columbia, 1965*
 John A. Ross. *B.A., Ottawa, 1956; M.A., Yale, 1957; Ph.D., 1961*
 Giorgio R. Solimano (in the Institute of Human Nutrition). *B.S., Chile, 1952; M.D., 1960*

Clinical Professors

Rosemary Barber-Madden. *B.A., Jersey City State, 1968; M.P.H., Hunter, 1977; Ed.D., Temple, 1980*
 Catherine Cowell. *B.S., Hampton Institute, 1945; M.S., Connecticut, 1947*
 Martin E. Gorosh. *B.A., Brooklyn, 1959; M.P.H., Johns Hopkins, 1969; Dr.P.H., 1973*

Associate Professor

Andrew R. Davidson. *B.A., Sterling; M.A., Illinois, 1971; Ph.D., 1974*

Adjunct Associate Professor

Tomas Frejka. *M.A., Prague (Czechoslovakia), 1959; Ph.D., Czechoslovak Academy of Sciences, 1966*

Associate Professors of Clinical Public Health

Wendy Chavkin (in Obstetrics & Gynecology). *B.A., Michigan (Ann Arbor), 1973; M.D., State University of New York (Stony Brook), 1978; M.P.H., Columbia, 1980*
 Debra Kalmuss. *B.A., State University of New York (Buffalo), 1973; M.S.W., Bryn Mawr, 1976; M.A., Michigan, 1977; Ph.D., 1980*
 Sally A. Lederman (in the Institute of Human Nutrition). *B.S., Brooklyn, 1957; M.S., Columbia, 1976; M.Phil, 1979; Ph.D., 1980*
 Pearlta Namerow. *B.A., Pennsylvania, 1970; M. Phil., Columbia, 1974; Ph.D., 1976*
 Virginia A. Rauh. *B.A., Middlebury, 1969; M.S.W. Smith, 1971; Sc.D., Harvard, 1982*

Associate Clinical Professors

Audrey Tittle Cross (in the Institute of Human Nutrition). *B.S., California (Berkeley), 1967; M.P.H., 1969; J.D., California (Hasting), 1978; Ph.D., California (Berkeley), 1985*
 Sally E. Findley. *B.A., Reed, 1970; M.A., George Washington, 1977; D. Phil., Brown, 1986*
 Judith E. Jones. *B.A., Hunter, 1956; M.S., Columbia, 1983*
 William A. Van Wie. *B.A., Wooster, 1961; B.D., Pittsburgh Seminary, 1964; M.P.H., North Carolina, 1968; Dr.P.H., 1974*
 Maria J. Wawer. *B.S., New Brunswick (Fredericton), 1974; M.D., McMaster, 1977; M.H., Sc., Toronto, 1980*

Assistant Professors

Luis B. Agellon (in the Institute of Human Nutrition). *B.Sc., McMaster, 1982; Ph.D., 1986*
 William S. Blaner (in the Institute of Human Nutrition). *B.S., Maryland, 1972; M.S., Tennessee, 1975; Ph.D., 1979*
 David A. Talmage (in the Institute of Human Nutrition). *B.A., Virginia, 1976; Ph.D., Minnesota, 1981*

Adjunct Assistant Professors

Suelli G. Dallari. *B.A., Sao Paulo (Brazil), 1972; M.P.H., 1978; Dr.P.H., 1984; J.D., 1988*
 Amy Pollack. *B.S., Florida, 1978; M.D., 1982; M.P.H., Washington (Seattle), 1991*

Zeil Rosenberg. B.A., *Stanford*, 1978; M.D., *California (San Francisco)*, 1982; M.P.H., *Columbia*, 1985

Michele G. Shedlin. B.S., *Columbia*, 1968; M.A., 1975; M. Phil., Ph.D., 1982

Assistant Professors of Clinical Public Health

Linda F. Cushman. Ph.D., *New York University*, 1986

Lynn P. Freedman. B.A., *Yale*, 1976; J.D., *Harvard*, 1981; M.P.H., *Columbia*, 1990

Donald J. Lauro. B.A., *California (Berkeley)*, 1966; M.A., 1971; Ph.D., *Australian National (Canberra)*, 1979

Regina McNamara. B.A., *St. Elizabeth*, 1950; M.S.W., *Fordham*, 1964; M.P.H., *Columbia*, 1978; Dr.P.H., 1985

Stanley Musgrave. B.A., *Haverford*, 1977; M.D., *Rochester*, 1981; M.P.H., *North Carolina*, 1985

Victoria M. Ward. B.Phil., *Western (Ohio)*, 1982; M.A., *Tulane*, 1985; Ph.D., 1989

Assistant Clinical Professors

Bruce Armstrong. B.A., *Marist*, 1971; M.S.W., *New York University*, 1976

Bill L. Bower. B.A., *Stanford*, 1973; M.P.H., *Columbia*, 1989

Alain Damiba. M.D., *Ecole Supérieure Des Sciences de la Santé*, 1985; M.P.H., *Columbia*, 1988

Ismail T. Diene. M.D., *Dakar (Africa)*, 1981; M.P.H., *Columbia*, 1987

Janet C. Edmondson. B.A., *Manhattanville*, 1971; M.A., *Columbia*, 1976; M.Phil., 1985; Ph.D., 1986

Angela J. Kamara. R.N., *Forester Hill College of Nursing (Scotland)*, 1969; C.N.M., *Withington Maternity Hospital (England)*, 1971

Mark S. Rapoport. M.D., *Boston*, 1970; M.P.H., *Harvard*, 1973

Linda A. Randolph. B.S., *Howard*, 1962; M.D., 1967; M.P.H., *California (Berkeley)*, 1971

S. Jaime Rozovski. B.S., *Chile*, 1969; M.S., *Columbia*, 1971; Ph.D., 1977

Associate Research Scientists

Mary Larner. B.A., *Swarthmore*, 1972; Ed.M., *Tufts*, 1976; Ph.D., *Cornell*, 1985

Deborah P. Maine. B.A., *Barnard*, 1972; M.P.H., 1982

Eugene M. Weiss. B.A., *California (Berkeley)*, 1963; M.P.H., 1965; Ph.D., *Michigan*, 1972

LECTURERS

Elizabeth Bernardik, M.P.H.

Alan B. Bernstein, M.P.H.

Dennis Carlson, M.D.

M. Barbara Ciatelli, M.A.

Rebecca J. Cook, M.P.A., J.D.

Morton Lebow, M.A.

Joyce T. Leung, M.S.

Jill Markowitz, M.P.H.

Jean Pakter, M.D.

Joseph R. Vasselli, Ph.D.

Sociomedical Sciences

Professor and Division Head

Eugene Litwak (also Sociology). B.A., *Wayne State*, 1948; Ph.D., *Columbia*, 1958

Professors

Ronald Bayer. B.A., *State University of New York (Binghamton)*, 1964; M.A., *Chicago*, 1967; Ph.D., 1976

Denise B. Kandel (in Psychiatry). *B.A., Bryn Mawr, 1952; M.A., Columbia, 1953; Ph.D., 1960*
 Seymour Spilerman (Levi Professor of Social Sciences). *B.A., Pomona, 1959; M.A., Brandeis, 1961; Ph.D., John Hopkins, 1968*

Clinical Professors

Geoffrey Gibson. *B.A., Nuttingham, 1959; M.A., Ohio, 1967; Ph.D., 1968*
 Joseph Marbach. *B.A., Drew, 1965; D.D.S., Pennsylvania, 1960*

Senior Research Scientist

Ann F. Brunswick. *B.A., Hunter, 1946; M.A., Clark, 1947; Ph.D., Columbia, 1976*

Associate Professor

John L. Colombotos. *B.A., Columbia, 1949; M.A., 1952; Ph.D., Michigan, 1961*

Associate Professors of Clinical Public Health

John P. Allegrante. *B.S., State University of New York (Cortland), 1974; B.S., Illinois, 1976; Ph.D. 1979*
 Mindy Fullilove (also Psychiatry). *B.A., Bryn Mawr, 1971; M.S., Columbia, 1974; M.D., 1978*

Associate Clinical Professor

Peter A. Messeri. *B.S., Massachusetts Institute of Technology, 1972; M.A., Columbia, 1976; Ph.D., 1985*

Associate Clinical Professor of Social Sciences

Carol Caton (in Psychiatry). *B.S., Columbia, 1962; M.S.N., Yale, 1965; Ph.D., Michigan, 1961*

Research Scientist

Mata K. Nikias. *D.D.S., Athens, 1953; M.P.H., Columbia, 1960; Ph.D., 1976*

Assistant Professors

David Evans (in Pediatrics). *B.A., Harvard, 1964; M.A., Northwestern, 1969; Ph.D., 1975*
 Cheryl G. Heaton. *B.A., New England, 1975; M.P.A., New York University, 1978; Dr.P.H., Columbia, 1991*
 Mary Clare Lennon. *B.A., Fordham, 1970; M.A., Columbia, 1975; Ph.D., 1980; M.S., 1985*

Adjunct Assistant Professors

Judith Barr. *B.A., Goucher, 1957; Sc.D., Johns Hopkins, 1976*
 Margery Braren. *M.A., Columbia, 1963; Ph.D., 1971*
 Lawrence Krasnoff. *B.A., College of the City of New York, 1969; Ph.D., 1979*
 Betty W. Levin. *B.A., Barnard, 1969; M.A., Columbia, 1977; M.Phil., 1980; Ph.D., 1985*
 Debra Murphy. *B.S., New Mexico, 1975; M.S., Texas Christian, 1981; Ph.D., 1983*

Assistant Professors of Clinical Public Health

Donald H. Gemson. *B.A., Hamilton (New York), 1974; M.D., New York Medical College, 1978; M.P.H. Columbia, 1985*

Carol Lewis. B.A., *Radcliffe*, 1955; M.A.T., *Johns Hopkins*, 1962; M.S.W., *Maryland*, 1966; M.P.H., *Johns Hopkins* 1976; Sc.D., 1983
 Robert E. Fullilove (in Psychiatry). B.A., *Colgate*, 1966; M.S., *State University of New York (Syracuse)*, 1972; Ed.D., *Columbia*, 1984

Assistant Clinical Professors

James A. Lipton. B.S., *College of the City of New York*, 1967; D.D.S., *Columbia*, 1971; Ph.D., 1980
 Elie S. Valencia (in Psychiatry). B.A., *Columbia*, 1980; M.A., *State University of New York (Binghamton)*, 1982; J.D., *Rutgers*, 1989

Associate Research Scientists

Angela A. Aidala. B.A., *Miami*, 1967; Ph.D., *Columbia*, 1980
 Laura Lee Dean. Ed.M., *Columbia*, 1980; M.A., 1978; B.A., *City College of New York*, 1974
 Stanley Fisher. B.S., *College of the City of New York*, 1949; M.S.W., *Columbia*, 1955; Ph.D., *City University of New York*, 1977
 Dorothy Jones-Jessop. B.A., *New Rochelle*, 1963; M.A., *New York University*, 1972; Ph.D., 1979
 Myriam Sudit. B.A., *Hunter*, 1972; M.S., 1974; Ph.D., *Columbia*, 1987
 Carole S. Vance (Anthropology). B.A., *Hunter*, 1968; Ph.D., *Columbia*, 1970
 C. Naomi Velez. B.A., *Puerto Rico*, 1970; M.A., 1973; M. Phil., *Columbia*, 1978; Ph.D., 1981

Senior Research Associate

Paul W. Haberman. B.S., *Pennsylvania*, 1948; M.B.A., *New York University*, 1961

Research Associate

Athilia Siegmann. B.S., *Queens (New York)*, 1944; M.A., *Columbia*, 1947

SPECIAL LECTURER

Jack Elinson, Ph.D.

LECTURERS

Raymond Fink, Ph.D.
 Kim Hopper, Ph.D.
 Corinne Kirchner, M.Phil.
 Victoria H. Raveis, Ph.D.
 Lucille Rosenbluth, M.P.A.

INSTRUCTORS

Charlotte Ellis, Ph.D.
 Rochelle Kern, Ph.D., M.P.H.

Tropical Medicine Program

Professor and Acting Program Head

Dickson D. Despommier (Parasitology) (also Microbiology). B.S., *Fairleigh Dickinson*, 1962; M.S., *Columbia*, 1964; Ph.D., *Notre Dame*, 1967

Assistant Professors

Mary Gwo-Shu Lee (also Pathology). *B.S., National University of Taiwan, 1978; M.S., 1981; Ph.D., New York University, 1985*

Assistant Clinical Professor

Martin G. Blechman. *B.S., George Washington, 1949; M.S., Columbia, 1953; M.D., Jefferson, 1957*

Radiation Oncology

Professor and Chairman

Peter B. Schiff. *B.A., Brandeis, 1975; M.S., Albert Einstein, 1978; Ph.D., 1980; M.D., 1984*

At Presbyterian Hospital

Professor of Radiation Biophysics

Eric J. Hall (also Eugene Higgins Professor of Radiology) (Physics). *D.Phil., Oxford, 1962; D.Sc., 1978*

Professor of Radiation Biology

Basil V. Worgul (in Ophthalmology). *B.S., Miami, 1969; Ph.D., Vermont, 1974*

Professors of Clinical Radiation Oncology

Howard Ira Amols. *B.S., Cooper Union, 1970; M.S., Brown, 1973; Ph.D., 1974*

Charles R. Geard. *B.A.S., Melbourne, 1960; M.S., Tasmania, 1969; Ph.D., Australian National, 1973*

Associate Professors

David Jonathan Brenner. *B.A., Oxford, 1974; M.S., London, 1976; Ph.D., Surrey, 1979*

Marco Zaider (also Public Health) (Environmental Health Science). *M.S., Bucharest (Romania), 1968; Ph.D., Tel Aviv, 1976*

Associate Clinical Professor

Karen S. Fountain. *B.A., Northern State (South Dakota), 1968; M.D., Maryland, 1972*

Assistant Professors

Greg A. Freyer. *B.S., Cincinnati, 1976; Ph.D., Missouri, 1981*

Mary K. Hayes. *B.A., Manhattanville, 1975; M.S., Boston, 1980; M.D., Ross, 1984*

Tom K. Hei. *B.S., Wisconsin, 1958; Ph.D., New York University, 1974*

Steven R. Isaacson (also Otolaryngology). *B.S., Pennsylvania State, 1969; M.D., Jefferson, 1973*

Paul J. Kliauga (Radiation Biophysics). *B.S., Chicago, 1958; Ph.D., New York University, 1974*

Howard B. Lieberman. *B.S., Brooklyn, 1977; Ph.D., Rutgers, 1982*

Adjunct Assistant Professors

Paul E. Goldhagen. *B.S., Maryland, 1967; Ph.D., Princeton, 1973*

Anthony M. Mount. *M.S., Oxford, 1972*

Assistant Professors of Clinical Radiation Oncology

Michael J. Bardash. *B.S., State University of New York (Albany), 1981; Ph.D., Cornell, 1989*
 Richard Calvin Miller. *B.A., Iowa, 1969; M.S., 1972; Ph.D., 1976*
 Jaime S. Rubin. *Ph.D., Toronto, 1984*
 Cheng Shie Wu. *B.S., National Tsing Hua University (Taiwan), 1979; M.S., 1982; Ph.D., Kansas, 1985*

Associate Research Scientists

Bradford Loucas. *B.S., Monmouth (New Jersey), 1979; M.S., North Carolina, 1983; Ph.D., Colorado, 1990*
 Gerhard Randers-Pehrson. *B.S., Rensselaer Polytechnic Institute, 1966; M.D., Maryland, 1979*

SPECIAL LECTURER

Chu Huai Chang, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

Harold J. Barthold II. *B.S., Massachusetts, 1978; M.D., Hahnemann, 1982*

Radiology

James Picker Professor and Chairman

Philip O. Alderson. *B.A., Washington (St. Louis), 1966; M.D., 1970*

At Presbyterian Hospital

Professors

Walter E. Berdon. *B.A., Syracuse, 1950; M.D., 1955*
 Frieda Feldman. *B.A., New York University, 1953; M.D., 1957*
 Eric J. Hall (Physics) (also Eugene Higgins Professor of Radiation Biophysics). *Ph.D., Johns Hopkins, 1942*
 Sadek Hilal. *M.D., Cairo, 1955*
 Jeffrey H. Newhouse. *B.A., Princeton, 1963; M.D., Harvard, 1967*

Professor of Medical Informatics

Paul Clayton (in Medicine). *B.A., Utah, 1966; M.S., Arizona, 1969; Ph.D., 1973*

Adjunct Professors

Zang-Hee Cho (Radiation Physics). *B.S., Seoul National, 1960; M.S., 1962; Ph.D., Uppsala, 1966*
 Lawrence A. Shepp. *B.S., Polytechnic Institute of Brooklyn, 1958; M.A., Princeton, 1960; Ph.D., 1961*
 Charles Springer. *B.S., St. Louis, 1962; M.S., Ohio, 1964; Ph.D., 1967*

Professors of Clinical Radiology

John H. M. Austin. *B.A., Harvard, 1961; M.D., Yale, 1965*
 Yahya M. Berkman. *M.D., Istanbul, 1952*

Peter D. Esser (Physics). *B.A.*, *Brown*, 1961; *M.S.*, *Adelphi*, 1964; *Ph.D.*, 1971
 Jack Farman. *M.B., Ch.B.*, *University of Cape Town (South Africa)*, 1948; *M.D.*, 1963
 Rashid Fawwaz. *M.D.*, *American University of Beirut*, 1960; *Ph.D.*, *California (Berkeley)*, 1968
 Donald L. King. *B.A.*, *Stanford*, 1956; *M.D.*, *Columbia*, 1960
 Eric C. Martin. *B.A.*, *Oxford*, 1963; *M.A.*, 1967; *M.D.*, *St. Thomas (London)*, 1967
 Edward L. Nickoloff (Radiation Physics). *B.S.*, *Carnegie Institute of Technology*, 1965; *M.S.*, *New Hampshire*, 1968; *Sc.D.*, *Johns Hopkins*, 1977
 Ralph Schlaeger. *B.S.*, *Wisconsin*, 1942; *M.D.*, 1945
 Alan J. Silver. *B.A.*, *Harvard*, 1967; *M.D.*, *Rochester*, 1973
 Ronald L. Van Heertum. *B.A.*, *Gettysburg*, 1962; *M.D.*, *College of Medicine and Dentistry of New Jersey*, 1966

Associate Professor

John Pile-Spellman (also Neurological Surgery). *B.M.S.*, *South Dakota*, 1976; *M.D.*, *Tufts*, 1978

Adjunct Associate Professor

Linda Kaufman. *B.S.*, *Brown*, 1969; *M.S.*, *Stanford*, 1971; *Ph.D.*, 1973

Associate Professors of Clinical Radiology

Sara Abramson. *B.A.*, *Sarah Lawrence*, 1967; *M.D.*, *Mt. Sinai*, 1971
 Thane Asch. *B.A.*, *Columbia*, 1951; *M.D.*, *Cornell*, 1955
 Lawrence M. Buxt. *B.A.*, *California (Berkeley)*, 1970; *M.D.*, *New York Medical College*, 1974
 Monique C. Katz. *B.A.*, *Vassar*, 1959; *M.D.*, *Albert Einstein*, 1963
 Karen Laffey. *B.A.*, *Bryn Mawr*, 1968; *M.Phil.*, *Yale*, 1971; *Ph.D.*, 1974; *M.D.*, 1977
 Theodore Sheng-Tao Wang. *B.S.*, *National Mukden Medical College (China)*, 1952; *M.S.*, *Nebraska*, 1958; *Ph.D.*, *Maryland*, 1964

Associate Professor of Clinical Neuropsychology

Isak Prohovnik (in Psychiatry and Neurology). *M.S.*, *Lund (Sweden)*, 1980; *Ph.D.*, 1981

Associate Clinical Professors

Harry Agress, Jr. *B.A.*, *Tufts*, 1968; *M.D.*, 1972
 Kaaren Nyhus Bergquist. *B.S.*, *Wisconsin*, 1962; *M.D.*, *Case Western Reserve*, 1968
 Jacqueline C. Brunetti. *B.A.*, *Manhattanville*, 1971; *M.D.*, *State University of New York (Downstate)*, 1975
 Sundara R. Ganti. *M.B., B.S.*, *Guntur Medical College (India)*, 1967
 Herman W. Lubetsky. *B.S.*, *College of the City of New York*, 1948; *M.D.*, *Geneva*, 1953

Assistant Professors

Ronda Bixon. *B.S.*, *Tufts*, 1976; *M.D.*, 1981
 Stephen Chan. *B.A.*, *Harvard*, 1979; *M.D.*, *Columbia*, 1984
 Judith A. Fayter. *B.S.*, *Pace*, 1978; *M.D.*, *Columbia*, 1985
 Robin L. Greenspan. *B.A.*, *Franklin & Marshall*, 1977; *M.D.*, *Pennsylvania*, 1981
 Leah P. Gruss. *B.A.*, *Hunter*, 1980; *M.D.*, *Albert Einstein*, 1986
 Glyn Johnson. *B.A.*, *Cambridge*, 1977; *M.S.*, *Aberdeen*, 1978; *Ph.D.*, 1984
 Jose Katz (also Medicine). *B.S.*, *Illinois*, 1963; *M.S.*, 1964; *Ph.D.*, 1967; *M.D.*, *Berlin*, 1980
 Eliza Pile-Spellman. *B.S.*, *South Dakota*, 1976; *M.D.*, *Tufts*, 1978
 Tae Hyon Rho. *B.A.*, *Duke*, 1980; *M.D.*, *North Carolina*, 1984
 Joseph K. Rogers. *B.S.*, *Manhattan*, 1977; *M.D.*, *New York Medical College*, 1981
 Benjamin M. Romney. *M.D.*, *Columbia*, 1977

- Carrie B. Ruzal-Shapiro. B.A., *Princeton*, 1978; M.D., *Columbia*, 1982
 Steven N. Sireci, Jr. B.A., *Pennsylvania*, 1980; M.D., *College of Medicine and Dentistry of New Jersey*, 1984
 Ronald B. Staron. B.S., *Villanova*, 1977; M.D., *College of Medicine and Dentistry of New Jersey*, 1982
 Donald M. Stavis. B.A., *Queens (New York)*, 1968; M.D., *Albert Einstein*, 1972
 Alicia Zwass. M.D., *Wroclawo (Poland)*, 1968

Assistant Professors of Clinical Radiology

- Mohammed Abdul-Quader. M.B., B.S., *Osmania (India)*, 1968
 Agnes Boxhill. B.S., *City College of New York*, 1974; M.D., *Columbia*, 1979
 Edward I. Holodny. B.A., *New York University*, 1964; M.E., 1968; Sc.D., *New York University and Indiana Northern*, 1974;
 In Ki Mun. B.A., *Pomona*, 1975; M.S., *Cornell*, 1978; Ph.D., 1980
 Ellen F. Silverstein. B.A., *Brandeis*, 1962; M.A., *Columbia*, 1963; M.D., *State University of New York (Downstate)*, 1969

Assistant Clinical Professors

- Gregory Marc Carsen. B.A., *Oberlin*, 1965; M.D., *State University of New York (Downstate)*, 1969
 Harvey L. Hecht. B.A., *Amherst*, 1958; M.D., *Albert Einstein*, 1962
 David J. Mullen. B.A., *Rutgers*, 1979; M.D., *Albert Einstein*, 1983

SPECIAL LECTURERS

- David H. Baker, M.D.
 Kent Ellis, M.D.
 William B. Seaman, M.D.

ASSOCIATES IN CLINICAL RADIOLOGY

- Ajoy K. Dutta, M.S.
 Charles L. Smith, M.S.

INSTRUCTORS IN CLINICAL RADIOLOGY

- James A. Mcfaul, Ph.D.
 Frieda Trichter, D.Sc.

At Mary Imogene Bassett Hospital

Adjunct Assistant Professor

- Stephen W. Nagy. Ph.D., *Connecticut*, 1959

Assistant Clinical Professors

- Lawrence Barnowsky. B.A., *Hofstra*, 1972; M.S., *Rutgers*, 1974; M.D., *State University of New York (Albany)*, 1978
 Vittal B. Chanamolu. M.D., *Kakatiya Medical College (India)*, 1972
 Rajendrakumar Dalal. M.B., B.S., *D.V.M. Medical School, (India)*, 1969
 Harry R. Hartmann. M.D., *Yale*, 1959
 Katherine Lloyd. B.A., *Radcliffe*, 1970; M.D., *Rochester*, 1975
 David L. Sommerville. B.A., *Washington & Jefferson*, 1964; M.D., *Pennsylvania*, 1968
 Peter Wright. B.A., *Albion (Michigan)*, 1971; M.D., *Michigan*, 1975

INSTRUCTOR IN CLINICAL RADIOLOGY

Thomas E. Miller, M.D.

At Harlem Hospital Center

Associate Clinical Professor

Theodore H. Stent. *B.A., Talledega, 1944; M.D., Meharry, 1948*

Assistant Professors

Nasser H. S. Hassini. *M.D., Tehran (Iran), 1964*

Roberta C. Locko. *B.A., Manhattanville, 1972; M.D., George Washington, 1976*

Virgiliu G. Necula. *M.D., Faculty of Medicine (Romania), 1949*

Assistant Professor of Clinical Radiology

Laurencia B. Regalado. *M.D., Santo Tomas (Philippines), 1957*

Assistant Clinical Professors

Norma H. Aquino. *M.D., Santo Tomas (Philippines), 1964*

Christopher A. Johnson. *B.A., Howard, 1943; M.D., 1947*

Candido P. Quinones. *M.D., Santo Domingo, 1966*

Allan J. Schwartz. *B.A., City College of New York, 1967; M.S., Harvard, 1968; M.D., Columbia, 1974*

Leroy A. Sugarman. *B.A., Johns Hopkins, 1942; M.D., Long Island, 1945*

Abdulhamid R. Vazir. *M.D., Bombay, 1942*

INSTRUCTORS IN CLINICAL RADIOLOGY

Nabil Arslan, M.D.

Serge Balmir, M.D.

Gilles M. Hendrick, M.D.

Gary Roxland, M.D.

At Morristown Memorial Hospital

Assistant Clinical Professors

Roger A. Berg. *B.S., Michigan, 1957; M.D., 1961*

Roy J. Cobb. *B.A., Wesleyan, 1979; M.D., Cornell, 1983*

William C. Colston. *B.S., Davidson (North Carolina), 1958; M.D., Duke, 1962*

Hal J. Ginsberg. *B.A., State University College, 1973; M.D., Universidad Centro de Estudios Tecnicos (Dominican Republic), 1983*

Simon C. P. Lam. *B.S., St. Joseph, 1972; M.S., Ph.D., Pennsylvania, 1978*

Allan W. Newcomb. *B.A., Princeton, 1956; M.D., Yale, 1960*

Fred M. Palace. *B.A., Johns Hopkins, 1952; M.A., 1956; M.D., Yale, 1960*

James B. Rubenstein. *B.S., Cornell, 1974; M.D., New York Medical College, 1978*

Jeanne R. Schwartz. *B.A., Skidmore, 1963; M.S., New York University, 1965; M.D., State University of New York (Downstate), 1979*

Lawrence C. Swayne. *B.S., Ursinus (Pennsylvania), 1975; M.D., Rutgers, 1979*

A. Frank Weitzman. *B.A., Cornell, 1967; M.D., Johns Hopkins, 1971*

At St. Luke's-Roosevelt Hospital

Professor

Ronald C. Ablow. *B.A., Harvard, 1954; M.D., Rochester, 1962*

Professor of Clinical Radiology

Guy D. Potter. *B.S., Chicago, 1957; M.D., 1960*

Clinical Professor

Kuo-York Chynn. *B.S., National Tung-Chi University (Shanghai), 1945; M.D., 1949; M.S., St. Louis, 1954*

Associate Professor

Ernest G. Depuey. *B.A., Duke, 1969; M.D., Baylor, 1976*

Associate Professors of Clinical Radiology

Sol Jay Dan. *B.A., Yeshiva, 1970; M.D., Cornell, 1974*

David H. Frager. *B.A., Yeshiva, 1973; M.D., Pennsylvania, 1977*

Richard Palmer Gold. *B.A., Tufts, 1965; M.D., 1969*

Lucy E. Hann. *B.A., Saratoga (New York), 1968; M.S., Dartmouth, 1971; M.D., Harvard, 1973*

Chester J. Kay. *B.A., Michigan, 1956; M.D., State University of New York (Downstate), 1960*

Associate Clinical Professors

Michael Abiri. *M.D., Tehran, 1972*

Jeanne W. Baer. *B.S., Connecticut, 1960; M.D., Columbia, 1964*

Rolando Dario Singson. *B.S., Santo Tomas (Philippines), 1965; M.D., 1970*

Bernard Suster. *B.S., State University of New York (Brooklyn), 1964; M.D., State University of New York (Downstate), 1968*

Assistant Professors

George I. Getrajdman. *B.A., Rutgers, 1976; M.D., Johns Hopkins, 1980*

Nolan J. Kagetsu. *B.S., Massachusetts Institute of Technology, 1980; M.D., State University of New York (Albany), 1984*

Alexander G. Khandji. *B.S., St. Francis, 1975; M.D., State University of New York (Downstate), 1980*

Madhuri Kirpekar. *B.A., New York University, 1974; M.D., State University of New York (Downstate), 1978*

Sherman S. Lipschitz. *B.A., Columbia, 1976; M.D., 1980*

Suzanne J. Smith. *B.A., Carleton, 1966; M.D., Medical College of Pennsylvania, 1971*

Assistant Professors of Clinical Radiology

Benjamin Bashist. *B.S., Brooklyn, 1972; M.D., Albert Einstein, 1975*

Andrew J. DeRogatis. *M.D., Rutgers, 1975*

Cheryl H. Grandone. *B.S., Brooklyn, 1973; M.S., 1975; M.D., Mt. Sinai, 1981*

Carol L. Hilfer. *B.A., Barnard, 1967; M.D., Albert Einstein, 1971*

Anita Gross Moallem. *B.S., Brooklyn, 1960; M.D., Albert Einstein, 1964*

Marie E. Porzio. B.S., *State University of New York (Stony Brook)*, 1983; M.D., *New York Medical College*, 1987

Marjorie S. Rosenblatt. B.A., *Cornell*, 1982; M.D., *State University of New York (Stony Brook)*, 1986

Richard Michael Schaffer. M.D., *State University of New York (Downstate)*, 1976

Alvaro Vallejo. M.D., *Del Valle (Colombia)*, 1967

David A. Wojtasek. B.A., *Johns Hopkins*, 1979; M.D., 1982

Assistant Clinical Professors

David S. Marsden. Ph.D., *Jefferson*, 1968

Theodora Serban. B.S., *Lyceum Regina Maria (Bucharest)*, 1947; M.D., *Medical School (Bucharest)*, 1953

SPECIAL LECTURERS

Virginia Kanick, M.D.

Leonard M. Liegner, M.D.

Rehabilitation Medicine

H. K. Corning Professor and Chairman

James S. Lieberman. B.S., *California (San Francisco)*, 1960; M.D., 1963

At Presbyterian Hospital

Professors

John A. Downey (Simon Baruch Professor). M.D., *Manitoba*, 1954; D.Phil., *Christ Church (Oxford)*, 1962

Stanley J. Myers (A. David Gurewitsch Professor). B.A., *New York University*, 1957; M.D., *State University of New York (Downstate)*, 1961

Clinical Professor

Sanders W. Davis. M.D., *Texas*, 1965

Associate Professor

Lucien J. Cote (also Neurology). B.A., *Vermont*, 1951; M.D., 1954

Associate Clinical Professors

Arun Bhattacharyya. B.S., *Bangabasi (Calcutta)*, 1950; M.D., *Nihatan Sirca Medical College (Calcutta)*, 1955

Antonio Cocchiarella. M.D., *Bari (Italy)*, 1953

Francis J. Foca. B.S., *Fordham*, 1957; M.D., *Bologna (Italy)*, 1966

Jonathan Moldover. B.A., *Trinity (Connecticut)*, 1970; M.D., *Columbia*, 1974

Anthony J. Pisciotta. B.A., *Hofstra*, 1971; M.D., *Rome*, 1980

Assistant Professor

Brenda S. Mallory. B.S., *Manitoba*, 1976; M.D., 1980

Adjunct Assistant Professor of Pharmacology

Daniel E. Lemons. *B.A., Goshen, 1974; M.S., Portland, 1978; M.Phil., Columbia, 1982; Ph.D., 1986*

Assistant Professors of Clinical Rehabilitation Medicine

Jose A. Alonso. *B.A., Columbia, 1979; M.D., 1983*
 Nelson Colon. *B.S., Puerto Rico, 1982; M.D., 1986*
 Daniel C. Fechtner. *B.S., Northwestern, 1982; M.D., 1984*
 Mary Guarracini. *B.S., Mount St. Vincent, 1978; M.D., St. Louis, 1982*
 S. David Miller. *B.S., Tufts, 1980; M.D., State University of New York (Buffalo), 1986*
 Zachary M. Pine. *B.A., Amherst, 1982; M.D., Columbia, 1986*
 Gale Pugliese. *B.A., Johns Hopkins, 1979; M.D., New York Medical College, 1983*
 Malcolm D. Reid. *B.S., Fordham, 1982; M.P.H., M.D., Harvard, 1987*

Assistant Clinical Professors

Donald Liss. *B.A., Columbia, 1975; M.D., Wayne, 1979*
 Howard Liss. *B.A., New York University, 1973; M.D., Wayne, 1977*
 Gregory J. Mulford. *B.A., Lafayette, 1981; M.D., Rutgers, 1985*
 Kathleen R. Watson. *M.B., B.S., West Indies, 1971*

Associate Research Scientists

Martha E. Heath (also Pharmacology). *B.S., California (Hayward), 1973; M.A., 1975; Ph.D., Cambridge (Great Britain), 1979*
 Fredi Kronenberg. *B.S., Cornell, 1972; Ph.D., Stanford, 1979*

SPECIAL LECTURER

Robert C. Darling, M.D.

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE

Robert P. Narcessian, B.S.
 Robert Stone, M.S.

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE

Thomas J. Cava, M.D.
 Glenn F. Hutnick, B.S.
 Paul Jendrek, M.D.
 Peter D. Natale, D.P.M.
 Patricia A. Richards, M.D.
 Anne M. Skvarla, M.A.

At Harlem Hospital Center

Professors of Clinical Rehabilitation Medicine

Albert Anderson. *B.A., Columbia, 1948; M.D., Harvard, 1952*
 Herbert L. Thornhill. *B.S., Pittsburgh, 1951; M.D., Howard, 1955*

Clinical Professor

Yasoma B. Challenor. *B.A., Hunter, 1959; M.D., State University of New York (Downstate), 1963*

Associate Clinical Professor

Wanda Brodzka. *M.D., Academy of Medicine (Warsaw), 1954*

Assistant Professors of Clinical Rehabilitation Medicine

Thomas Abraham. *B.S., St. Philomena's, 1953; M.D., Kasturba Medical College, 1961*
Iluminado C. Nebab. *M.D., Santo Tomas (Philippines), 1959*

Assistant Clinical Professor

Serge Fenelon (also Pediatrics). *M.D., Lausanne, 1973*

Assistant Clinical Professor of Neuropsychology

Richard S. Babb. *M.A., California (Los Angeles), 1972; Ph.D., Queens (New York), 1975*

SPECIAL LECTURER

Ivan T. Donev, *M.D.*

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE

Armand Demosthenes, *M.D.*

Roger G. Perard, *M.D.*

INSTRUCTOR IN CLINICAL OCCUPATIONAL THERAPY

Sandhya E. Zarapkar, *M.A.*

INSTRUCTOR IN CLINICAL PHYSICAL THERAPY

Joseph A. Malloy, *M.D.*

At St. Luke's-Roosevelt Hospital Center

Associate Clinical Professors

Patrick J. Fazzari. *B.S., Manhattan, 1963; M.D., State University of New York (Albany), 1967*
Stanley Wainapel. *B.A., M.D., Boston, 1970*

Assistant Professor of Clinical Rehabilitation Medicine

Jeffrey L. Cole. *B.S., Queens, 1973; M.D., Guadalajara, 1977*

Assistant Clinical Professor

Young Sei Kwon. *M.D., Catholic (Korea), 1960*

INSTRUCTOR IN CLINICAL OCCUPATIONAL THERAPY

Cheryl King, *M.S.*

Occupational Therapy

Associate Professor and Director of Program

Barbara Neuhaus. *B.A., Keuka, 1950; O.T.R., Columbia, 1952; M.A., 1960; Ed.D., 1980*

Associate Clinical Professor

Gordon G. Williamson. *B.A., Emory, 1968; M.S., Columbia, 1970; Ph.D., 1978*

Adjunct Assistant Professor

Anne Mazur-Robinson. *B.S., Columbia, 1978; M.A., 1983*

Assistant Professors of Clinical Occupational Therapy

Jane P. Bear-Lehman. *B.S., Wisconsin, 1973; M.S., Illinois, 1981*

Margaret Ann Brown. *B.S., Western Michigan, 1960; M.A., Columbia, 1976*

Janet Falk-Kessler. *B.S., Pennsylvania, 1974; M.A., Columbia, 1978*

Patricia A. Miller (also Public Health) (Geriatrics & Gerontology). *M.A., Columbia, 1978*

Chaye L. Warburg. *B.A., Columbia, 1976; M.A., 1980*

INSTRUCTORS IN CLINICAL OCCUPATIONAL THERAPY

Danielle Butin, B.S.

Ruth Dickey, M.A.

Elaine D. Fondiller, M.S.

Carol Fraley, M.S.

Susan J. Gelb, B.S.

Michele C. Helfgot, M.A.

Elaine M. McCreanor, M.S.

Pamela H. Miller, M.A.

Christopha Moreland, M.S.

Elise A. Salantrie, M.A.

Jo Ann Vizzari, M.S.

Lisa L. Zoldan, B.S.

Physical Therapy

Associate Professor of Clinical Physical Therapy and Acting Director

Joan E. Edelstein. *B.S., New York University, 1956; M.A., 1958*

Assistant Professors

James E. Gordon. *B.A., State University of New York (Downstate), 1974; M.A., Columbia, 1981; Ed.M., 1983; Ed.D., 1985*

Ellen C. Ross. *B.A., Connecticut, 1978; B.S., New York University, 1982; M.A., 1985*

Assistant Professors of Clinical Physical Therapy

Cynthia M. Chiarello. *B.S., State University of New York (Fredonia), 1977; M.S., Duke, 1979; Ph.D., New York University, 1987*

Mary Joan Day. *B.S., St. Louis, 1961; M.S., Pennsylvania, 1972*

Christine W. Wade. *B.S., Ohio State, 1979; M.A., 1984; M.S., 1986*

SPECIAL LECTURER

Mary E. Callahan, M.A.

ASSOCIATES IN CLINICAL PHYSICAL THERAPY

Theodore Corbitt, M.A.

Carl Gargiulo, M.A.

Rita Hamburg, M.A.

Theresa M. Morrone, B.A.

Howard J. Phillips, Jr., M.S.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY

Maria Alarico, B.S.
 Lori Buck, B.S.
 Theresa Carway, B.S.
 Michael A. Gallucci, M.S.
 Linda Gundersen, M.S.
 Michael J. Katz, B.S.
 Susan C. Kiley, M.S.
 Gerald F. Lewis, M.S.
 Susan A. McDonald, B.S.

Joyce Nahigian, M.S.
 Terrence O'Halloran, M.S.
 Debbie A. Organ, M.S.
 Edward M. Pisarski, M.S.
 Marylee Purrington, M.S.
 Tricia Rajczak, M.S.
 Georgia Reidel, B.S.
 Ruth A. Teitel, M.S.
 Jannell W. Vetter, B.S.

Surgery

Valentine Mott Professor; Johnson and Johnson Professor and Chairman

Keith Recemtsma. B.S., *Idaho State*, 1945; M.D., *Pennsylvania*, 1949

At Presbyterian Hospital

Professors

R. Peter Altman (Rudolph N. Schullinger Professor of Pediatric Surgery) (in Pediatrics). B.A., *Colgate*, 1955; M.S., *Rochester*, 1958; M.D., *New York Medical College*, 1961
 Mark A. Hardy (Hugh Auchincloss Professor of Surgery). B.A., *Columbia*, 1958; M.D., *Albert Einstein*, 1962
 Norman E. Hugo (Plastic). B.A., *Williams*, 1955; M.D., *Cornell*, 1959
 Thomas C. King. (Jose M. Ferrer Professor) B.A., *Utah*, 1950; M.A., *Missouri*, 1954; M.D., 1963
 Paul Lo Gerfo. B.S., *Rensselaer Polytechnic Institute*, 1961; M.S., 1963; M.D., *State University of New York (Upstate)*, 1967
 John B. Price, Jr. M.A., *Texas*, 1948; M.D., *Johns Hopkins*, 1950
 Henry M. Spotnitz (George H. Humphreys II Professor). B.A., *Harvard*, 1962; M.D., *Columbia*, 1966

Professors of Clinical Surgery

David Tak Wai Chiu. B.A., *Missouri*, 1969; M.D., *Columbia*, 1973
 Kenneth A. Forde. B.S., *City College of New York*, 1954; M.D., *Columbia*, 1959
 George E. Green. B.S., *Yale*, 1952; M.D., 1956
 Alfred M. Markowitz. B.A., *New York University*, 1948; M.D., *Washington (St. Louis)*, 1952
 John N. Schullinger. B.A., *Princeton*, 1951; M.D., *Columbia*, 1955

Professor of Clinical Pathology

Nicole Suciu-Foca. B.S., *Bucharest*, 1959; M.S., 1960; Ph.D., 1965

Clinical Professors

Donald Wood-Smith. L.C., *Newington (Sydney, Australia)*, 1947; M.B., B.S., *Sydney (Australia)*, 1954
 Bashir Ahmad Zikria. B.S., *George Washington*, 1954; M.D., *Johns Hopkins*, 1958

Associate Professors

Roman Nowygrod. B.A., *Harvard*, 1966; M.D., *Columbia*, 1970
 Jan M. Quagebeur. B.S., *Facultes Universitaire*, 1965; M.D., *Catholic University*, 1969

Eric A. Rose. B.A., *Columbia*, 1971; M.D., 1975

Charles J. H. Stolar. B.A., *Washington (St. Louis)*, 1970; M.D., *Georgetown*, 1974

Adjunct Associate Professor of Pathology

Ah-Kau Ng. B.A., *National Chung Hsing University (Taiwan)*, 1969; M.D., *State University of New York (Plattsburgh)*, 1972; Ph.D., *Temple*, 1975

Associate Professor of Clinical Dental & Oral Surgery

Steven M. Roser (in Otolaryngology). B.A., *Middlebury*, 1964; D.M.D., *Harvard*, 1968; M.D., 1972

Associate Professors of Clinical Surgery

Alan Benvenisty. B.S., *Union*, 1974; M.D., *Columbia*, 1978

Joseph A. Buda. B.A., *Columbia*, 1951; M.D., *Cornell*, 1955

Alison Estabrook. B.A., *Barnard*, 1974; M.D., *New York University*, 1978

Alfred Jaretzki, III. B.A., *Harvard*, 1941; M.D., 1944

Craig Richey Smith. B.A., *Williams*, 1970; M.D., *Case Western Reserve*, 1977

Daniel H. Smith (Oncology) (also Obstetrics & Gynecology). M.D., *Harvard*, 1972

George J. Todd. B.S., *Iona*, 1970; M.D., *Pennsylvania State*, 1974

Michael Treat. B.A., *Pennsylvania*, 1971; M.D., *Jefferson*, 1976

Collin J. Weber. B.A., *Princeton*, 1967; M.D., *Columbia*, 1971

Associate Clinical Professors

Sven Kister. B.A., *Dartmouth*, 1955; M.D., *Harvard*, 1958

Peter S. Liebert. M.D., *Harvard*, 1961

Kenneth M. Steinglass. B.A., *Yale*, 1968; M.D., *Harvard*, 1972

Assistant Professors

M. Kamel Abouzahr. B.A., *American University of Beirut*, 1974; M.D., 1978

Spencer E. Amory. B.S., *Long Island*, 1979; M.D., *Johns Hopkins*, 1983

John A. Chabot. B.S., *Tufts*, 1979; M.D., *Dartmouth*, 1983

Peter L. Geller. B.A., *Harvard*, 1971; M.D., *Columbia*, 1980

Robert E. Michler. B.A., *Harvard*, 1978; M.D., *Dartmouth*, 1981

Frey R. Schnabel. B.A., *Barnard*, 1978; M.D., *New York University*, 1982

Paul Matthew Starker. M.A., *Harvard*, 1976; M.D., *Columbia*, 1980

Steven Stylianios. B.A., *Rutgers*, 1978; M.D., *New York University*, 1983

Mark R. Sultan. B.A., *Brandeis*, 1978; M.D., *Columbia*, 1982

Richard L. Whelan. B.S., *Fordham*, 1978; M.D., *Columbia*, 1982

Assistant Professors of Clinical Surgery

Mark L. Barr (also Medicine). B.S., *City University of New York*, 1979; M.D., *Mt. Sinai*, 1981

Lester Gottesman. B.A., *Rutgers*, 1974; M.D., *Pittsburgh*, 1978

Assistant Clinical Professors

Jeffrey J. Arliss. B.S., *Vermont*, 1978; B.A., 1979; M.D., *Columbia*, 1983

Paul H. Gerst. B.A., *Columbia*, 1948; M.D., 1952

Mark E. Ginsburg. B.A., *Amherst*, 1976; M.D., *Tufts*, 1980

Leif O. Holgersen. B.A., *Taylor (Indiana)*, 1960; M.D., *College of Medicine and Dentistry of New Jersey*, 1965

Jeffrey L. Zitsman. B.A., *Johns Hopkins*, 1972; M.D., *Tufts*, 1976

Associate Research Scientists

- Eleni S. Athan. *B.A., Hunter, 1970; D.E.A., Paris, 1974; Ph.D., 1978*
 Jorge A. Leon. *B.A., Universidad Del Valle (Colombia), 1975; M.S., Universidad de los Andes (Colombia), 1979*
 Shanta M. Modak. *Ph.D., Haffkine Institute (Bombay), 1969*
 Karen M. Newnan. *B.S. State University of New York (Stony Brook), 1980; M.P.H., Mt. Sinai, 1985; Ph.D., 1987*
 Osvaldo J. Yano. *M.D., Sao Paulo (Brazil), 1989*
 Shrishailam S. Yemul. *B.S., Shivaji (Khapur, India), 1965; M.S., 1968; Ph.D., National Chemical Laboratory (Poona, India), 1974*

SPECIAL LECTURERS

- Harold G. Barker, M.D.
 Carl R. Feind, M.D.
 Frank E. Gump, M.D.
 Philip Wiedel, M.D.

INSTRUCTORS IN CLINICAL SURGERY

- Harold M. Bruck, M.D.
 Salomon Rivera, M.D.
 Mark David Sherman, M.D.
 James S. Todd, M.D.

LECTURERS

- A. Douglas Heymann, M.D.
 Ronald N. Ollstein, M.D.
 Allen D. Rosen, M.D.
 Norman Sas, M.D.

At Mary Imogene Bassett Hospital

Professor of Clinical Surgery

- David A. Blumenstock. *B.A., Union (Schenectady), 1949; M.D., Cornell, 1953*

Clinical Professors

- Michael S. Gold. *B.S., Miami, 1961; M.D., 1965*
 John E. Olson. *B.A., Kansas, 1953; M.D., 1956*

Assistant Professors of Clinical Surgery

- James Bordley, IV. *B.A., Yale, 1965; M.D., Columbia, 1970*
 Patrick Allen Dietz. *B.A., Holy Cross, 1966; B.M.S., Dartmouth, 1968; M.D., Harvard, 1970*
 Roger W. MacMillan, III. *B.S., Trinity, 1961; M.D., Columbia, 1965*

INSTRUCTOR

- David L. Rayfield, M.D.

INSTRUCTOR IN CLINICAL SURGERY

- Robert M. Moglia, M.D.

At Harlem Hospital Center

Professors of Clinical Surgery

- Barbara Barlow. *B.A., Vassar, 1960; M.A., Columbia, 1963; Ph.D., 1964; M.D., Albert Einstein, 1967*
 Harold P. Freeman. *B.A., Catholic, 1954; M.D., Howard, 1958*

Associate Professor

- Soji Oluwole. *B.S., Ibadan, 1967; M.B., B.S., 1970*

Associate Professors of Clinical Surgery

Arthur Cooper (in the Institute of Human Nutrition). *B.A., Harvard, 1971; M.D., Pennsylvania, 1975*

Colin W. McCord. *B.A., Williams, 1949; M.D., Columbia, 1953*

Associate Clinical Professors

David M. Carberry. *Ph.D., Providence, 1947; M.D., Jefferson, 1951*

Ferdinand A. Ofodile. *B.S., Northwestern, 1964; M.D., 1968*

John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*

Mohamad H. Parsa. *B.S., Tehren, 1957; M.D., 1963*

Assistant Professors of Clinical Surgery

Monqidh M. Al-Sawwaf. *M.D., Pahlavi, 1976*

David L. Friedman. *B.A., Rutgers, 1966; M.S., 1967; M.D., State University of New York (Downstate), 1971*

Ganepola A. Ganepola. *B.S., Kyoto, 1966; M.D., 1967*

Sitaram Pillarisetty. *M.D., Andhra (India), 1969*

Max Yergan. *B.A., Columbia, 1943; M.D., 1946*

Assistant Professor of Clinical Orthopedic Surgery

Shearwood J. McClelland. *B.A., Princeton, 1969; M.D., Columbia, 1974*

Assistant Clinical Professors

Rajunder P. Gandhi. *M.B., B.S., Institute of Medicine (Mandalay), 1966*

Ruben Oropeza. *B.S., Mexico, 1948; M.D., 1955*

Carlton E. Patrick. *M.D., University of the Saar (Hamburg, Germany), 1957*

Assistant Clinical Professor of Neurological Surgery

Robert W. Shick. *B.A., Columbia, 1948; M.D., New York Medical College, 1953*

Assistant Clinical Professor of Otolaryngology

Ransford C. Newman. *M.B., B.S., London, 1960*

SPECIAL LECTURER

Robert F. Morton, M.D.

ASSOCIATES IN CLINICAL SURGERY

Matthew D. Branche, M.D.

Urbano K. Guarin, M.D.

Malcolm Moley, M.D.

Pierre G. Van Bockstaele, M.D.

INSTRUCTORS IN CLINICAL SURGERY

Albert K. Adu, M.D.

Elizabeth A. Almeyda, M.D.

Gerard S. Audige, M.D.

Deodatt V. Bendre, M.D.

Canute C. Bernard, M.D.

Shefi A. Bezar, M.B., B.S.

Egel Francois, M.D.

Edoardo Giuliani, M.D.

Avtar S. Josen, M.D.

Barnett Miller, M.D.

Scott J. Zevon, M.D.

INSTRUCTOR IN CLINICAL NEUROLOGICAL SURGERY

George V. DiGiacinto, M.D.

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY

Caleb Medley, M.D.

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Ellsworth L. Frye, M.D.

Cecil D. Grimes, M.D.

At Morristown Memorial Hospital

Associate Professor of Clinical Surgery

Grant Van Sicken Parr. *A.B.*, *Wesleyan*, 1965; *M.D.*, *Cornell*, 1969

Associate Clinical Professors

John J. Castronuovo. *B.A.*, *Columbia*, 1970; *M.D.*, *New York Medical College*, 1974

Ames L. Filippone. *B.A.*, *Cornell*, 1950; *M.D.*, 1953

John R. McCormick. *B.S.*, *Loyola*, 1961; *M.D.*, *Boston*, 1965

Warren Widmann. *M.D.*, *Yale*, 1961

Assistant Clinical Professors

John Alkhas. *M.D.*, *Tehran*, 1959

Rolf Bessin. *M.D.*, *George Washington*, 1964

John Edoga. *B.A.*, *Columbia*, 1967; *M.D.*, 1971

Edward R. McLean. *M.D.*, *Columbia*, 1973

Ghassem Niknejad. *M.D.*, *Tehran*, 1961

Eugene Watkins. *M.D.*, *Harvard*, 1943

INSTRUCTORS IN CLINICAL SURGERY

Carey Dolgin, *M.D.*

Hughes Dougan, *M.D.*

R. Alan Henseler, *M.D.*

At Overlook Hospital

Clinical Professor

Richard W. Brenner. *B.A.*, *Princeton*, 1954; *M.D.*, *Columbia*, 1958

Associate Clinical Professors

David Befeler. *B.A.*, *Columbia*, 1955; *M.D.*, 1959

Bruce J. Brener. *B.A.*, *Yale*, 1962; *M.D.*, *Harvard*, 1966

Charles J. Wittmann, Jr. *B.A.*, *Princeton*, 1958; *M.D.*, *Pennsylvania*, 1962

Assistant Clinical Professors

John H. Cooper. *B.S.*, *Lawrence*, 1947; *M.B.A.*, *Chicago*, 1949; *M.D.*, 1954

Douglas M. Costabile. *B.A.*, *Muhlenberg*, 1946; *M.D.*, *Geneva*, 1951

Jerrold S. Lozner. *B.A.*, *Columbia*, 1967; *M.D.*, *Louisville*, 1971

Daniel L. Moore. *M.D.*, *Johns Hopkins*, 1958

ASSOCIATES IN CLINICAL SURGERY

Joseph V. Bocchino, *M.D.*

Walter Groff, *M.D.*

Robert E. Knapp, *M.D.*

Thomas Logio, *M.D.*

Charles A. Loguda, *M.D.*

Saverio J. Panzarino, *M.D.*

Morton Perkoff, *M.D.*

Jerome Spivack, *M.D.*

At St. Luke's-Roosevelt Hospital Center

Ailsa Mellon Bruce Professor

David M. Tilson. *B.A.*, *Rier*, 1963; *M.D.*, *Yale*, 1967

Professors of Clinical Surgery

Richard C. Eaton. *B.S.*, *Franklin & Marshall*, 1951; *M.D.*, *Pennsylvania*, 1955

Richard B. Stark. *B.A.*, *Stanford*, 1936; *M.D.*, *Cornell*, 1941

Walter Wichern. *B.S.*, *Mount Union (Ohio)*, 1942; *M.D.*, *Harvard*, 1945

Clinical Professors

W. Graham Knox. *B.A.*, *Columbia*, 1939; *M.D.*, 1942

Wolfgang Jost Michelsen. *B.A.*, *Harvard*, 1959; *M.D.*, *Columbia*, 1963

George Robinson. *B.A.*, *Columbia*, 1942; *M.D.*, *Cornell*, 1945

Senior Research Scientist

George A. Hashim (also Microbiology). *Ph.D.*, *Columbia*, 1967

Associate Clinical Professors

Fadi F. Attiyeh. *B.S.*, *American University of Beirut*, 1965; *M.D.*, 1969

Robert E. McCabe. *B.A.*, *Williams*, 1948; *M.D.*, *Cornell*, 1953

Robert E. Miller. *B.A.*, *New York University*, 1953; *M.D.*, *State University of New York (Downstate)*, 1957

Howard R. Nay. *B.A.*, *Virginia Military Institute*, 1952; *M.D.*, *Columbia*, 1956

James B. Rodgers. *B.A.*, *Virginia*, 1944; *M.D.*, 1948

Assistant Professor

Constantine E. Anagnostopoulos. *B.A.*, *Georgetown*, 1959; *M.D.*, 1963; *D.Sc.*, *Athens*, 1967

Assistant Professor of Clinical Surgery

William G. Ramey. *B.A.*, *Virginia*, 1970; *M.D.*, 1973

Assistant Clinical Professors

Darrick E. Antell. *B.S.*, *Hobart*, 1973; *D.D.S.*, *Case Western Reserve*, 1978; *M.D.*, *Ohio*, 1982

Arnold H. Belgrair. *B.A.*, *Boston*, 1967; *M.D.*, *Columbia*, 1971

Peter A. Bossart. *B.A.*, *Muhlenberg*, 1947; *M.D.*, *Cornell*, 1951

Thomas Dailey. *B.A.*, *Princeton*, 1957; *M.D.*, *Cornell*, 1961

Michael Kalisman. *M.D.*, *Hebrew (Hadassah)*, 1973

Fred M. Kimmelstiel. *B.A.*, *Queens (New York)*, 1974; *M.D.*, *New York Medical College*, 1980

Thom R. Loree. *B.A.*, *Vassar*, 1978; *M.D.*, *George Washington*, 1982

Stephan G. Lynn. *B.A.*, *Swarthmore*, 1969; *M.D.*, *Columbia*, 1973

James A. MacDonald. *B.A.*, *Princeton*, 1948; *M.D.*, *Columbia*, 1950

Richard A. Marks. *B.A.*, *Harvard*, 1965; *M.D.*, 1968

Haroutune A. Mekhjian. *B.S.*, *American University of Beirut*, 1961; *M.D.*, 1965

Donna Maria Mendes. *B.A.*, *Hofstra*, 1973; *M.D.*, *Columbia*, 1977

Eric D. Moore. *B.A.*, *Harvard*, 1969; *M.D.*, *Columbia*, 1975

Robert J. Mulcare. *B.A.*, *Princeton*, 1957; *M.D.*, *Columbia*, 1961

James E. Norris. *B.S.*, *Hampton Institute*, 1953; *M.D.*, *Case Western Reserve*, 1957

Peter Stewart. *B.S.*, *State University of New York (Brookport)*, 1979; *M.D.*, *Wisconsin*, 1983

Alexander J. Swistel. *B.A., Harvard, 1971; M.S., Rutgers, 1973; M.D., Brown, 1975*
 James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
 Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS IN CLINICAL SURGERY

Charles R. Blair, M.D.
 Peter B. Cinelli, M.D.
 Hiram Sedgwick Cody, III, M.D.
 Clarence A. Dunn, Jr., M.D.
 Peter B. Fodor, M.D.
 Steven Z. Glickel, M.D.
 B. Smith Hopkins, M.D.
 Richard H. Karpinski, M.D.
 John J. Keyser, M.D.
 Farid J. Khoury, M.D.
 Ronald M. Linder, M.D.
 Dianne R. Lorieo, M.D.
 Paul I. Tomljanovich, M.D.
 Frank A. Veteran, M.D.
 Hiroshi Washio, M.D.

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY

George J. Zambetti, M.D.

Urology

John K. Lattimer Professor and Chairman

Carl A. Olsson. *B.A., Bowdoin, 1959; M.D., Boston, 1963*

At Presbyterian Hospital

Professor of Anatomy & Cell Biology

Anthony Bellve (in the Center for Reproductive Sciences). *B.Ag.Sc., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*

Professor of Clinical Pathology

Paul B. Fisher. *B.A., Hunter, 1968; M.A., Lehman, 1971; Ph.D., Rutgers, 1974*

Professors of Clinical Urology

Jerry G. Blaivas. *B.A., Tufts, 1964; M.D., 1968*
 Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*
 Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*

Associate Professor of Clinical Urology

Mitchell Clark Benson. *B.S., Union, 1973; M.D., Columbia, 1977*

Associate Clinical Professors

Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
 Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professors

Kevin A. Burbige. *B.A., Siena, 1972; M.D., Wayne State, 1976*

Harry Fisch. *B.A., State University of New York (Binghamton), 1979; M.D., Mt. Sinai, 1983*

Steven Kaplan. *B.S., Brooklyn, 1978; M.D., Mount Sinai, 1982*

Ihor Steven Sawczuk. *B.A., New York University, 1974; M.D., Medical College of Pennsylvania, 1979*

Ridwan Shabsigh. *M.D., Damascus, Syria, 1976*

Assistant Professor of Biochemistry & Molecular Biophysics

Robert S. Cohen (in the Center for Reproductive Sciences). *B.S., Delaware, 1978; Ph.D., Southern California, 1982*

Assistant Professor of Urologic Biochemistry

Ralph Buttyan. *B.S., Pittsburgh, 1974; M.S., Chicago, 1977; Ph.D., 1980*

Assistant Professors of Clinical Urology

John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*

Gerald Hoke. *B.A., New York University, 1979; M.D., Cornell, 1983*

Assistant Clinical Professors

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*

John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*

Michael H. Wechsler. *B.S., Trinity, 1961; M.D., St. Louis, 1965*

Associate Research Scientists

Ruoqian Shen. *B.S., Fudan (Shanghai), 1967; M.S., Shanghai, 1981; Ph.D., State University of New York (Downstate), 1991*

Zhao-Zhong Su. *B.S., Shanghai (China), 1967; Ph.D., Liber de Bruxelles (Belgium), 1984*

SENIOR LECTURER

Abraham L. Kierszenbaum, Ph.D.

ASSOCIATES IN CLINICAL UROLOGY

Leonard J. Rudin, M.D.

Charles E. Umhey, Jr., M.D.

James A. Umhey, M.D.

INSTRUCTOR

Ben Z. Jacobs, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Luis M. Abreu, M.D.

Richard Kroll, M.D.

At Mary Imogene Bassett Hospital

Assistant Professor of Clinical Urology

Bruce R. MacDonald. *B.A., Washington & Lee, 1964; M.D., Medical College of Virginia, 1968*

At Harlem Hospital Center

ASSOCIATE IN CLINICAL UROLOGY

Urbano K. Guarin, M.D.

INSTRUCTOR IN CLINICAL UROLOGY

Kwabena Ansong, M.D.

At Overlook Hospital

Assistant Professor of Clinical Urology

Joseph Spencer Ritter. *M.D., Seton Hall, 1963*

Assistant Clinical Professor

Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSOCIATES IN CLINICAL UROLOGY

Kenneth L. Day, M.D.

Pascal A. Pironti, M.D.

Morey Wosnitzer, M.D.

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Urology

Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Associate Clinical Professor

Joseph N. Ward. *M.B., Ch.B., University College (Dublin), 1949*

Assistant Professors of Clinical Urology

David G. Kaufman. *B.S., City College of New York, 1980; M.D., State University of New York (Stony Brook), 1982*

Franklin Charles Lowe. *B.A., Princeton, 1975; M.P.H., M.D., Columbia, 1979*

Assistant Clinical Professor

Robert D. Wickham. *B.A., Drew, 1947; M.D., State University of New York (Albany), 1952*

Associate Research Scientist

Daniel Joseph Hryb. *Ph.D., City University of New York, 1972*

ASSOCIATES IN CLINICAL UROLOGY

William Reid Pitts, Jr., M.D.

Arumbi P. Subramaniam, M.D.

INSTRUCTOR

Norman H. Coleburn, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Walter Ivey Delph, M.D.

Jose V. Silva, M.D.

Alexander Sotiropoulos, M.D.

James W. Vastola, M.D.

Damir Velcek, M.D.

Official Regulations

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

University Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at any time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which the student is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until the fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges. No student may register after the stated period without obtaining the written consent of the appropriate dean or director.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' religious beliefs. In compliance with New York State law, each student who is absent from school because of his or her religious beliefs will be given an equivalent opportunity to register for classes or make up any examination, study or work requirements that he or she may have missed because of such absence on any particular day or days. No student will be penalized for absence due to religious beliefs, and alternative means will be sought for satisfying academic requirements involved.

Officers of administration and of instruction responsible for scheduling of academic activities or essential services are expected to avoid conflict with religious holidays as much as possible. If a suitable arrangement cannot be worked out between the student and the instructor, they should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Academic Discipline

The continuance of each student on the rolls of the University, the receipt of academic credits, graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Guidelines for Student Conduct

The Student-Faculty Advisory Committee of the College of Physicians and Surgeons has formulated the following Guidelines for Student Conduct. They provide a straightforward framework for ethical and responsible behavior.

General Guidelines

A medical student has the responsibility to conduct him/herself honorably at all times; during examinations, neither to give information to nor seek it from another student, or from any other unauthorized source; to carry out individual assignments as individuals, unless otherwise permitted and to avoid the incorporation of the ideas or work of others without proper attribution; and to extend to fellow students and members of the faculty, indeed to all others, the courtesy and respect he/she would enjoy receiving from them.

Specific Guidelines for the Clinical Years (based on "Guidelines for the Clinical Years," written by the Organization of Student Representatives of the Association of American Medical Colleges, unpublished).

A medical student shall respect all patients and their families regardless of their age, sex, race, national origin, religion, socio-economic status, state of health, personal habits, sexual orientation, or cleanliness; interact with patients, their families, and visitors in a courteous, considerate manner and avoid the use of derogatory colloquialisms; maintain confidentiality of information concerning patients and refrain from discussing cases except under appropriate circumstances; be truthful to the health care team in carrying out clinical responsibilities, never falsifying information or purposely misrepresenting a situation; be punctual, reliable, and conscientious in fulfilling clinical duties, while seeking the appropriate advice and supervision in doing so; accept the responsibility to question plans or directives for patient care when, after careful consideration, the student believes such plans not to be in the best interest of the patient; not participate in patient care if under the influence of any substance that impairs ability to function, or experiencing any physical or emotional condition which does so; take an active role in preventing an impaired student from being involved in patient care and at the same time recognize the obligation to assist such a colleague in seeking appropriate professional help; clearly identify his/her role as a medical student to each patient.

Rules of University Conduct

The Rules of University Conduct (Chapter XLI of the Statutes of the University) provide special disciplinary rules applicable to demonstrations, rallies, picketing, and the circulation of petitions. These rules are designed to protect the rights of free expression through peaceful demonstration while at the same time ensuring the proper functioning of the University and the protection of the rights of those who may be affected by such demonstrations.

The Rules of University Conduct are University wide and supersede all other rules of any school or division. Minor violations of the Rules of Conduct are referred to the normal disciplinary procedures of each school or division ("Dean's discipline"). A student who is charged with a serious violation of the Rules has the option of choosing Dean's discipline or a more formal hearing procedure provided in the Rules.

All University faculty, students, and staff are responsible for compliance with the Rules of University Conduct. Copies of the full text are available at the Office of the University Senate, 406 Low Memorial Library, at the Office of Student Information Services, 208 Philosophy.

Policy Statement on Discrimination and Harassment

The following statement was adopted by the University Senate on April 27, 1990.

As a great center of learning, Columbia University prides itself on being a community committed to free and open discourse, and to tolerance of differing views. We take pride, too, in preparing the leaders of our society and exemplifying the values we hope they will uphold. These commitments are subverted by intolerance, bigotry, and harassment. Even in recent history, we must recognize, race, ethnicity, religion, gender, sexual orientation, disability, and other irrelevancies have all occasioned attacks by the ignorant, the foolish, the sick, the evil. Instead of enjoying our differences and the richness they bring to our shared lives, some have chosen to make those differences the targets of anger and hate. As a community, we are committed to the principle that individuals are to be treated as human beings rather than dehumanized by treatment as members of a category that represents only one aspect of their identity.

This University resolutely condemns conduct that makes such targets of our differences. The free exchange of ideas central to the University can take place only in an environment that is based on equal opportunity for admission to academic and other programs and to employment, and on freedom from behavior that stigmatizes or victimizes others. All decisions concerning an individual's qualifications, free of stigmatizing consideration of race, color, national or ethnic origin, religion, disability, gender, sexual orientation, marital status, age, citizenship status, or Vietnam Era or disabled veteran status. Nor will Columbia tolerate any behavior that harasses members of the community on the basis of any of these qualities. Such behavior will be regarded as a violation of the standards of conduct required of any person associated with the University and will subject the person guilty of it to the full range of internal institutional discipline, including permanent separation. While mediation and consensual resolution are of course to be encouraged, we also recognize the right of all persons who believe themselves to have been the targets of such behavior to institute a formal grievance. Coercion to require them to overlook or retract their complaints fosters discrimination and harassment and is equally intolerable in our community.

It is not enough to be prepared to respond when ugliness appears. Members of a community such as ours must work preventively as well, to ensure that all our dealings with each other are marked by decency and characterized by civility. Columbia is committed to do what it can to engender mutual respect, understanding, and empathy. The University acknowledges a special responsibility to develop sensitivity to the concerns of those among us most vulnerable to discrimination and harassment.

Columbia devotes its resources to these commitments in many ways. Particularly noteworthy are the President's Committee for the Promotion of Mutual Understanding and Civility, charged with building a tolerant and vibrantly diverse community among us, and the Office of Equal Opportunity and Affirmative Action, responsible for coordinating the University's resources for responding to incidents of alleged discrimination or harassment. Ms. Rosalind Fink is the Director of the Office of Equal Opportunity and Affirmative Action, which is located in 409A Low Memorial Library. The telephone number of the office is 854-5511.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements: Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its educational programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to Rosalind S. Fink, Director of the Office of Equal Opportunity and Affirmative Action (409A Low Library, New York, NY 10027, telephone 854-5511), or to the Director, Office of Civil Rights (Region II), 26 Federal Plaza, New York, NY 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex, or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex, or national origin and

requires affirmative action to ensure equality of opportunity in all aspects of employment. In addition, New York Human Rights Law, Article 15, Executive Law Section 296 prohibits discrimination in employment because of marital status.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference or discrimination for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has also been designated to coordinate the University's compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied opportunity should contact this Office, which will investigate complaints and counsel employees on questions relating to equal opportunity and affirmative action.

Discrimination Grievance Procedure

The University's Discrimination Grievance Procedure is available to enrolled students who feel that they have been the victims of sexual harassment or discrimination on the basis of race, religion, national or ethnic origin, sex, sexual orientation, marital status, age, handicap, or Vietnam era or qualified special or disabled veteran status. A copy of the Procedure is available in the Office of Equal Opportunity and Affirmative Action, 409A Low Library (854-5511).

A complaint under this Procedure is initiated through completion of a Discrimination Complaint Form, also available in the Equal Opportunity Office. Staff in that office will assist in completing the form and are also available for confidential counseling and informal investigation of discrimination claims.

Columbia University Ombuds Office

The Ombuds Officer is a neutral complaint-handler who seeks fair and equitable solutions to problems. The Ombuds Office serves the entire Columbia University community. In considering any given instance or concern, the rights of all parties that may be involved, along with the welfare of the University, are taken into account.

The Ombuds Office is a safe and confidential place to voice concerns. No formal permanent records of individual records are kept, except anonymous aggregate statistical data on the categories of complaints or inquiries. The Ombuds Officer will not report the names of callers or visitors or the specific content of problems reported unless permission is granted, or in the very rare instance in which there is a reasonable cause to believe that the safety of the caller or others may be endangered.

Except in emergencies, the Ombuds Officer does not take action or investigate an issue without the permission of the person who introduced the information to the Ombuds Office. The Ombuds Officer will listen, offer information about Columbia University policies and procedures, present a range of options for resolving a problem, or help find ways to convey information while maintaining the confidentiality of the source.

The Ombuds Officer may conduct an informal, impartial investigation or facilitate a resolution upon request. However, the Ombuds Officer has no power to establish, change, or set aside any University rules or policies. However, the Ombuds Officer is a resource for administrators and, when appropriate, may make recommendations or propose general changes in existing practices to correct problem areas or stimulate discussion of issues affecting the University community.

The Ombuds Office supplements, but does not replace, the existing resources for conflict resolution and fair practice available at Columbia University. The Ombuds Office is independent of existing administrative structures and reports directly to the President of the University.

For further information, contact Marsha Wagner, Ombuds Officer, or Lise Afoy-Campbell, Administrative Assistant, in 659 Schermerhorn Extension; (212) 854-1234.

Protection Against Sexual Harassment

Policy Statement on Sexual Harassment

Federal Law (Title VII of the Civil Rights Act of 1964) provides that it shall be an unlawful discriminatory practice for any employer, because of the sex of any person, to discharge without just cause, to refuse to hire, or otherwise to discriminate against that person with respect to any matter directly or indirectly related to employment. Harassment of any employees on the basis of sex violates this federal law.

To help clarify what is unlawful sexual harassment, the Federal Equal Employment Opportunity Commission (EEOC) has issued Guidelines on the subject. While the EEOC Guidelines apply only to faculty and other employees, the University prohibits sexual harassment of any member of the Columbia community, whether such harassment is aimed at students, faculty, or other employees, and violators will be subject to disciplinary action. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature will constitute sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
2. submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or
3. such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive academic or working environment.

Any person who believes that he or she is being sexually harassed should seek a resolution of the problem through discussion with the person directly concerned. If this does not resolve the matter, or if there is a reluctance to deal directly with the person involved, the problem should then be brought to the attention of a member of the University Panel on Sexual Harassment. A list of current panelists appears on pp. 184–185. Advice may also be sought from the Office of Equal Employment Opportunity and Affirmative Action (409A Low Memorial Library; 854–5511). If these steps have not resolved the problem, the applicable University Grievance Procedure should be used, including the University Discrimination Grievance Procedure that is available if no other University grievance procedure is specifically applicable. No one at the University may retaliate in any way against a person who makes a claim of sexual harassment.

Charge of the University Panel on Sexual Harassment

The Columbia Panel on Sexual Harassment is composed of trusted, accessible, and sympathetic members of the University community who act as mediators. Their goal is the protection and counseling of any member of the University who is made to feel personally pressured or uncomfortable because of the behavior of another University member who is in a position of power. Members of the Panel provide a safe, impartial, nonadversarial setting in which the problem can be considered or solved, through confidential counseling and, when requested, mediation between the complainant and the alleged harasser. The Panel thus provides guidance and protection for the accused as well, identifying false or mistaken accusations, misunderstandings, or unconscious behavior. Panel members finally become a link through which the University can take account of, and take appropriate action against those on campus who are behaving illegally. The Panel on Sexual Harassment is thus a timely, protective, and compassionate arm of the University, one which not only sensitizes and educates the University community, but also demonstrates that University's commitment to fair treatment of all its members.

Sexual Harassment Complaint Procedures

A. Going to a Panelist

1. A complainant comes to a Panel member with a complaint, to report an incident, or to seek advice.
2. The Panel member obtains data through discussion with the complainant, but keeps no records.
3. The Panel member selects one of the counseling or mediation options suggested by his or her training.
4. If the case seems serious enough, the Panel member refers it to the Equal Opportunity/Affirmative Action Office.

B. Initiating a Formal Investigation

1. A formal investigation may be initiated in either of the following ways:
 - a. A complainant files a formal grievance under the applicable University grievance procedure. This step may be taken at any time, either with or without consulting a Panel member.
 - b. A Panel member, believing that further action in a particular case might be appropriate, with the permission of the complainant, consults with the director of the EOAA office and the General Counsel, or their designees. Consultations among the Panel member, General Counsel, and EOAA office may also occur in a case of multiple complaints.
2. All investigatory or formal actions taken will be conducted by the University and not by the Panel.

Panel Membership List

While Panelists are identified by location, school, or administrative area on this list, each of them is in fact available to any member of the Columbia community. Persons who feel uncomfortable speaking with "their" Panelists are encouraged to seek out a Panelist from elsewhere in the University.

Morningside

PROFESSIONAL SCHOOLS

Mary McLeod
Graduate School of
Architecture, Planning,
and Preservation
Associate Professor
306 Buell Hall
854-3414

Ann Bartel
Graduate School of
Business
Professor
710 Uris
854-4419

Stephen H. Unger
School of Engineering
and Applied Science
Department of Computer
Science
Professor
505 Computer Science
854-8187, 854-2736

Kenneth Goldstein
Graduate School of
Journalism
Professor
608B Journalism
854-4718, 854-4150

William Young
School of Law
Professor
8W8 Law
854-2645

Samuel Miller
School of Social Work
Associate Professor
711 McVickar
854-2735

ARTS AND SCIENCES

(Columbia College, Graduate School
of Arts and Sciences, School of Gen-
eral Studies, School of Interna-
tional and Public Affairs, and
School of the Arts)

Padma Desai
Department of Economics
Professor
1015 International Affairs
854-2266, 854-3681
(on leave, autumn 1992)

Kathy Eden
Department of English and
Comparative Literature
Associate Professor
602 Philosophy
854-2465

Larry Engel
School of the Arts
Vice Chairman of the Film Division
503A Dodge
854-1681

Eric Foner
Department of History
*De Witt Clinton Professor
of History*
620 Fayerweather, Box 16
854-5253

David Helfand
Department of Physics
Professor
1020 Pupin, Box 29
854-2150
(on leave, 1992-93)

Martha Howell
*Director, Center for Women &
Gender Studies*
Professor of History
763 Schermerhorn
854-3277

CENTRAL ADMINISTRATION

Joan Turner
**School of International and
 Public Affairs**
Associate Dean
 1415 International Affairs
 854-2598

Donna Badrig
Columbia College
Associate Dean for Administration
 417 Hamilton
 854-1110

Meg Dooley
Columbia Magazine
Editor
 3 Claremont Avenue
 280-3603

Mary Giannini
Center for Career Services
Executive Director
 Box 5432, CMR
 854-6275

University Libraries

Angela Giral
Avery Librarian
 230 Avery
 854-3068

Lamont-Doherty Geological
Observatory

Constance Sancetta
Senior Research Scientist
 Core Lab., Room 204
 Palisades, N.Y. 10964
 914-359-2900, Ext. 412

Nevis Laboratories

Michael Shaevitz
Professor of Physics
 914-591-8100, Ext. 247

Health Sciences

Jeanette Coy
Harlem Hospital Center
*Administrator for Professional
 Services*
 Obstetrics and Gynecology
 506 Lenox Avenue
 491-1573

Rae Janet Jacobs-Cohen
School of Nursing
Assistant Professor
 122 Georgian Building
 305-2809, 305-5654

Debra Kalmuss
School of Public Health
Associate Professor
 Center for Population and Family Health
 60 Haven Avenue, Level B-3
 304-5234

Daniel W. Morrissey
School of Public Health
*Assistant Professor of Clinical
 Behavioral Science*
 Bard Hall, Box 227
 305-3989

Marlene Moss-Klyvert
**School of Dental and
 Oral Surgery**
Associate Professor of Clinical Dentistry
 Box 20 Physicians and
 Surgeons
 305-3573

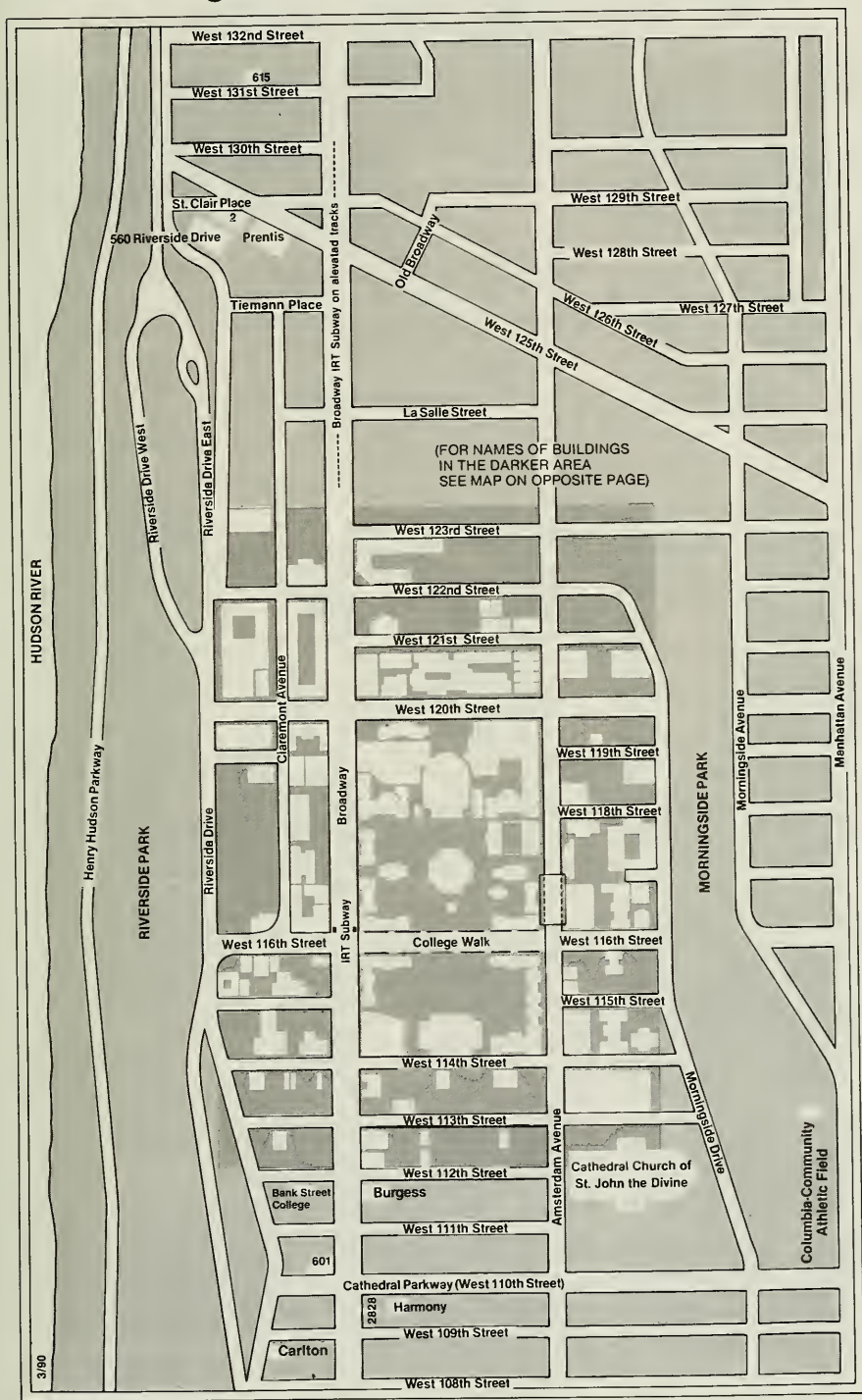
Marion Greenup
**Health Sciences
 Administration**
*Departmental
 Administrator*
 Pediatrics
 Babies Hospital South
 1-104
 305-7175

Katherine G. Nickerson
**College of Physicians
 and Surgeons**
Instructor in Clinical Medicine
 Physicians and Surgeons 8-507
 305-3645, 305-8039

Ethel Siris
**College of Physicians
 and Surgeons**
Professor of Clinical Medicine
 Presbyterian Hospital 4-124
 622 West 168th Street
 305-2529

Debra Wolgemuth
**College of Physicians
 and Surgeons**
Associate Professor of Genetics
 1613 Black Building
 305-7900

The Morningside Heights Area of New York City



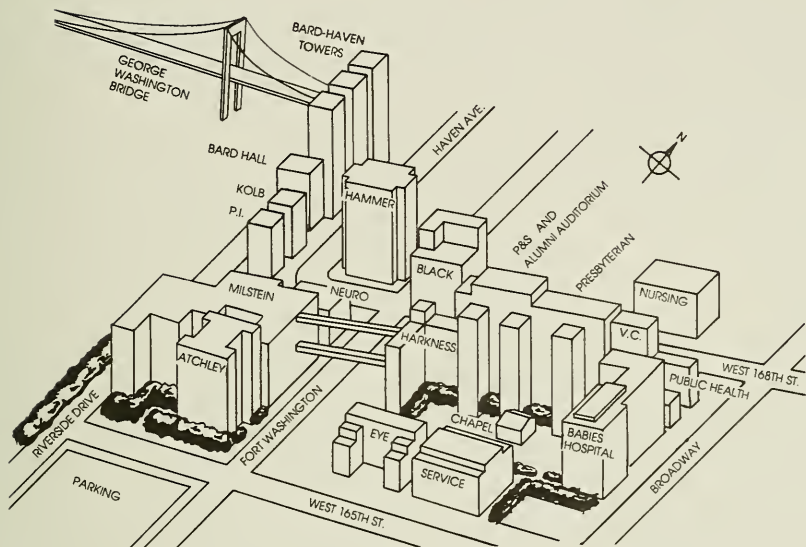
COLUMBIA UNIVERSITY

The Morningside Campus & Environs





Columbia-Presbyterian Medical Center
Columbia University
 HEALTH SCIENCES CAMPUS



Bard Hall and Bard-Haven Towers: Bard Hall is a 60-year-old dormitory for student housing, and the Towers are three University-owned apartment buildings for married students and third- and fourth-year medical students. The housing complex includes two other apartment-style buildings.

P.I. and Kolb: New York State Psychiatric Institute, including the Lawrence C. Kolb Research Building and Psychiatric Institute Annex

Hammer: Julius and Armand Hammer Health Sciences Center and Augustus C. Long Health Sciences Library

Neuro: The Neurological Institute of New York

Milstein: The Milstein Hospital Building

Atchley: The Dana W. Atchley Pavilion

Nursing: School of Nursing

Black: William Black Medical Research Building

P&S and Alumni Auditorium: The

College of Physicians and Surgeons Building and the Alumni Auditorium

V.C.: Vanderbilt Clinic, which has more than 100 clinics, group practices, and the emergency service. It also houses the School of Dental and Oral Surgery.

Public Health: School of Public Health in the Washington Heights Health Center

Presbyterian: The Presbyterian Hospital Building

Harkness: Harkness Pavilion

Chapel: The Pauline A. Hartford Memorial Chapel

Babies Hospital: Babies Hospital Building North and South and Sloane Hospital for Women

Eye: The Edward S. Harkness Eye Institute and research laboratories

Service: Service Building

Map courtesy of the Office of External Relations, Columbia University Health Sciences

